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An Occupational Profile of Manufacturing Industries in Massachusetts 1971

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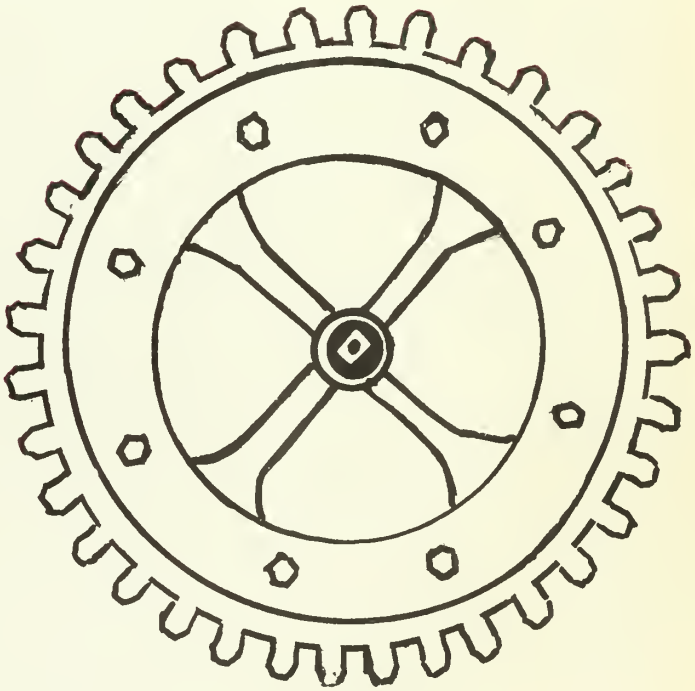

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THE COMMONWEALTH OF MASSACHUSETTS
DIVISION OF EMPLOYMENT SECURITY
Charles F. Hurley Employment Security Building
Government Center, Boston, Massachusetts 02114
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AN OCCUPATIONAL PROFILE

OF

MANUFACTURING INDUSTRIES

IN

MASSACHUSETTS

1971

Report Number 1

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INTRODUCTION

The Occupational Employment Statistics Program is part of a Federal-State cooperative program involving participating State Employment Security agencies as well as the Department of Labor's Manpower Admininstration and Bureau of Labor Statistics. It was designed to meet the needs of manpower analysts, educational planners, economists and others for current and projected data on employment by occupation and by industry. The data are particularly useful in evaluating current levels of occupational employment and demand for labor by type of skill; as a basis for assessing current demand for scientific and technical personnel; to provide the occupation/industry benchmark to project future occupational requirements.

The program is devoted primarily to collecting, by means of a mail survey questionnaire, occupational employment data. During 1971 - 1972, all manufacturing industries except printing and publishing were surveyed. In 1973 - 1974 a major segment of the nonfactory industries will be surveyed and by the end of 1974 it is anticipated that all nonagricultural industries will have been surveyed. A new cycle, beginning with manufacturing will then begin.

This report is the first in a series of documents on current occupational profiles of industry in Massachusetts. Subsequent reports will be published as each survey cycle is completed.

The information obtained from future surveys will be used to develop estimates of occupational employment for the Commonwealth and at least one major area. These data on industry-occupational patterns will be used to construct industry-occupation matrices which in turn will provide the data base for projecting occupational requirements and thereby produce a basic ingredient of a comprehensive manpower information system.

This study was prepared by members of the staff of the Occupation-Industry Research Department, Division of Employment Security. The U. S. Department of Labor, Bureau of Labor Statistics and the Manpower Administration at both Regional and National levels also provided invaluable assistance. Without the support and voluntary cooperation of the 2000 employers who took the time to complete the questionnaires and supply us with the occupational data upon which this study is based this survey would not have been possible.

MANPOWER AND EMPLOYMENT IN MANUFACTURING

Employment Developments

In 1971 manufacturing employment in Massachusetts registered a succession of declines below comparable months in 1970. In fact, the job count was lower each month in 1971 than in any comparable month at least since 1960. Manufacturing jobs averaged 595,500 in 1971 about 51,200 fewer than in 1970 and 104,400 below 1967, the crest of the space - Vietnam capital goods boom.

Two-thirds of the factory job setback from 1970 was in industries engaged in production of durable goods, down 33,400 to 327,100. Leading the down slide from 1970 (and from 1967 when the durable goods boom was in its fullest vigor) were these same industries that had paced the upturn during the advancing phase of the cycle.

Ordnance and accessories (-3400), primary metals (-2,200), fabricated metal products (-2,600), machinery except electrical (-7,000), electrical machinery (-12,400), transportation equipment (-2,400) accounted for a job loss of30,000, most of the durable goods slide since 1970. When measured from the cyclical peak in 1967, these same industries were responsible for a combined loss of 54,500 jobs, over 90 percent of the durable goods decline and over half the total factory decrease.

Nondurable goods industries, once the bulwark of the Massachusetts economy, employed 268,400 workers in 1971, 18,200 fewer than in 1970 and 45,200 below the 1967 count. The long persistent downward course of employment in Massachusetts' textile, shoe and apparel industries continued. Layoffs and plant closings also cut deeply into food, rubber, paper, printing and publishing.

The Occupational Structure

An occupation-industry matrix of the 71 standard occupations in manufacturing industries* in two-digit industry detail, the number and the percent distribution and summed by durable and nondurable goods industries are shown in Tables 1, 2, 2A, 3 and 3A.

Detailed occupational data for production workers, (which accounted for nearly 65 percent of employment in the factory industries surveyed) are shown in Tables 4 through 30 as listed in the Table of Contents.

As expected, the more labor intensive nondurable goods industries employed a significantly greater proportion of production workers (72.2 percent) than the durable goods industries (59.1 percent) as shown below.

Industry	Total Employment	Production Worker Employment	Production Worker Employment As A Percent Of Total Employment
Manufacturing Industries	518,370	335,760	64.8
Durable Goods	293,980	173,840	59.1
24 Lumber & Wood Products	4,360	3,060	70.2
25 Furniture and Fixtures	9,930	7,620	76.7
33 Primary Metal Industries	16,920	11,680	69.0
34 Fabricated Metal Products	36,830	24,400	66.3
35 Machinery, except Electrical	66,300	34,620	52.2
36 Electrical Machinery Equip. & Supplies	80,830	48,500	60.0
37 Transportation Equipment	23,600	13,540	57.4
38 Instruments & Related Products	30,640	13,290	43.4
39 Miscellaneous Manufacturing	24,570	17,130	69.7
Nondurable Goods	224,390	161,920	72.2
20 Food & Kindred Products	34,850	21,380	61.3
22 Textile Mill Products	28,650	20,970	73.2
23 Apparel & Other Textile Products	46,660	39,620	84.9
26 Paper & Allied Products	32,690	22,210	67.9
28 Chemicals & Allied Products	18,340	9,370	51.1
30 Rubber & Plastic Products, NEC	31,700	22,310	70.4
31 Leather & Leather Products	31,500	26,060	82.7

*Except SIC 19 Ordnance and Accessories, SIC 21 Tobacco Manufactures, SIC 27 Printing and Publishing, SIC 32 Stone, Clay and Glass Products.

NEC--not elsewhere classified.

Exclusive of the production worker category, of the occupations common to all industries the occupations that reported the largest number of workers (5,000 or more) are shown below:

Occupations	Employment	
	Number	Percent
All Occupations	518,370	100.0
Managers, except scientific and engineering	21,390	4.1
Plant Clerical Workers	14,880	2.9
Engineering Technicians	11,230	2.2
Salesman	10,770	2.1
Secretary	8,020	1.5
General Clerk	7,180	1.4
Mechanics and Repairmen	5,950	1.1
Janitors, Porters and Cleaners	5,680	1.1
Office Machine Operators	5,260	1.0

Appendix A
METHODOLOGY

The Sample

The sample for the survey of manufacturing firms was the list of reporting units contained in the Current Employment Statistics Program (BLS-790) with supplementation drawn from a list of manufacturing establishments contained in the second quarter 1971 report of Employment and Payrolls in Establishments subject to the Massachusetts Employment Security Law. The sample of establishments was stratified by industry and employment size class to include all manufacturing units (except in the printing and publishing industry) with four or more employees. There were 8912 establishments in the universe from which 3211 establishments were selected.

The Survey

The survey broadly consisted of four phases: sample selection; pretesting of industry job lists; data collection; and response analysis. Before the survey began, a selected number of firms in the sample were contacted by personal visit to pretest the job lists designed for their particular industry. The survey of Manufacturing industries required the development of thirty-three schedules and booklets of occupational definitions.

The second phase of the survey primarily involved data collection by mail. The mail survey consisted of an initial mailing and two follow-ups to nonrespondents. In addition large employers were visited to collect the survey data, and telephone contacts were also made to increase the survey response rate.

The final phase of the Occupational Employment Statistics Manufacturing Survey was response analysis, the primary purpose of which was to contact respondent firms to verify three facets of the design and processing procedures:

1. Unit or industry identification problems
2. Accuracy of reported data
3. Provide information requested by the Office of Management and Budget.

Response

Response to the survey was excellent. Of the 3211 firms in the survey, replies were received from 2279, a response rate of 71.0 percent. Of this number, 1983 establishments reporting employment of 319,995 returned useable replies. A comparison of universe establishment and employment count and useable response, in two-digit SIC detail is shown below:

SIC Code*	Benchmark Employment		Useable Response			
					Percent Benchmark	
	Firms	Employment	Firms	Employment	Firms	Employment
19	19	16,578	10	7,304	52.6	44.1
20	693	35,702	179	21,326	25.8	59.7
21	9	146	1	10	11.1	6.8
22	389	30,390	144	21,284	37.0	70.0
23	924	46,804	230	26,130	24.0	55.8
24	340	4,648	49	1,830	14.4	39.4
25	369	9,596	64	5,302	17.3	55.3
26	333	33,168	125	21,338	37.5	64.3
28	398	19,006	73	10,033	18.3	52.8
29	30	771	3	242	10.0	31.4
30	402	32,368	93	15,460	23.1	47.8
31	488	33,122	112	18,163	23.0	54.8
32	291	11,847	49	2,450	16.8	20.7
33	255	17,082	86	10,815	33.7	63.3
34	1,008	38,706	234	24,873	23.2	64.3
35	1,417	68,402	230	38,833	16.2	58.8
36	628	81,190	134	34,458	21.3	42.4

*See footnotes, page 11 for industry title for SIC code.

Continued from previous page

37	141	23,300	26	20,078	18.4	86.2
38	267	31,262	50	21,975	18.7	70.3
39	511	27,270	91	18,091	17.8	66.3
TOTAL	8,912	561,358	1,983	319,995	22.3	57.0

Estimating Procedure

The occupational estimates published in this report reflect benchmark totals, (total employment as reported in the April - June 1971 report of Employment and Payrolls in Establishments Subject to the Massachusetts Employment Security Law). /occupational employment estimates were prepared for each estimating cell or industry size class on an industry-by-industry basis. The occupational estimates were made for each of four size classes (1-19, 20-99, 100-499, 500 or more) at a three-digit industry level. Occupational estimates whenever possible were summed to prepare estimates at a two-digit and combinations of three-digit industry groups as desired.

Where the sample was found to be inadequate (as in the case of SIC 19 Ordnance Accessories) publication has been withheld.

The Occupational distributions of the reporting respondents in each 3-digit SIC industry, in each of the four size classes shown above were determined by deriving the ratio of the sum of the employment in each occupation to the sum of the total employment of the corresponding reporting establishments. These distributions were then multiplied by the corresponding benchmark estimates of total employment in that size class.

The ' rocedure for developing the occupational estimates for each occupation in each siz group in each SIC is expressed as follows:

$$PC = M \left(\frac{\sum P_1 \quad W_1}{\sum E_1 \quad W_1} \right)$$

PC = estimate for occupation P in an industry size cell

M = the benchmark employment for the industry size cell

P_i = reported employment for occupation P for the ith establishment in an industry size cell

e_i = reported total employment in the ith establishment in an industry size cell

W_i = weight of "1"

Simplified illustration

Occupation #40

SIC	Size Group	Benchmark Employment	I.D.	Establishment Employment	Occupation #40 Employment
201	A	3,000	1	300	30
			2	200	20
			3	300	30
			4	500	10
				1,300	90
	B	100,000	5	700	100
			6	1,500	300
			7	3,000	400
			8	4,000	500
			9	5,000	600
				14,200	1,900

$$PC = 3{,}000 \frac{90 \times 1}{1300 \times 1} = 208$$

$$PC = 100{,}000 \frac{1900 \times 1}{14200 \times 1} = 13{,}380$$

Total employment occupation #40. SIC 201 = 208 + 13,380 = 13,588

FOOTNOTES

1. For industry descriptions see the Standard Industrial Classification Manual, 1967 prepared by the Office of Statistical Standards.

SIC Code (2 digit)	Short Title
20	Food and Kindred Products
22	Textile Mill Products
23	Apparel and other Textile Products
24	Lumber and Wood Products
25	Furniture and Fixtures
26	Paper and Allied Products
28	Chemicals and Allied Products
30	Rubber and Plastics Products, NEC
31	Leather and Leather Products
33	Primary Metal Industries
34	Fabricated Metal Products
35	Machinery except Electrical
36	Electrical Equipment and Supplies
37	Transportation Equipment
38	Instruments and Related Products
39	Miscellaneous Manufacturing Industries

* Less than 5
** Less than 0.05 percent
# Except SIC 19, 32
ø Except SIC 21, 27, 29

Note: Because of sample deficiencies publication of data for the following industry groups has been withheld: SIC 19, 21, 29, 32. Printing and Publishing (SIC 27) was not included in this survey of manufacturing industries.

- Nonreported may be included in residual count for the group.

Occupational Descriptions

Descriptions of occupations used in the data collection phase were derived primarily from the Dictionary of Occupational Titles (DOT), third edition, 1965. As most of the jobs are defined in broad, all inclusive terms not all definitions can be expressed to coincide exactly with specific jobs in a particular establishment or in a given locality.

TABLE I
OCCUPATIONS OF EMPLOYEES IN MANUFACTURING INDUSTRIES 1/
DURABLE GOODS AND NONDURABLE GOODS
MASSACHUSETTS
APRIL-JUNE 1971

OCCUPATIONAL GROUP	Total		Durable Goods	Non-Durable Goods
	Number	Percent		
GRAND TOTAL	518,370	100.0	293,980	224,390
Service Occupations	9,920	1.9	5,340	4,580
Foreman, Nonworking	710	.1	300	410
Janitors, Porters and Cleaners	5,680	1.1	3,100	2,580
Guards, Watchmen, and Doorkeepers	2,090	.4	1,510	580
All Other Service Occupations	1,440	.3	430	1,010
Maintenance, Construction, Repair, and Power Plant Occup.	27,140	5.2	15,180	11,960
Foreman, Nonworking	1,740	.3	1,030	710
Carpenter	1,300	.3	970	330
Electrician	2,390	.5	1,660	730
Instrument Repairman	350	.1	210	140
Machine Tool Operator, Toolroom	890	.2	890	-
Machinist, Maintenance	2,390	.5	1,320	1,070
Mechanics and Repairmen	5,950	1.1	2,400	3,550
Mechanic, Aircraft	10	-	10	-
Mechanic, Automotive	890	.2	350	540
Mechanic, Maintenance	3,400	.7	1,500	1,900
All Other Mechanics and Repairmen	1,650	.3	540	1,110
Millwright	1,520	.3	940	580
Sheet Metal Worker, Maintenance	720	.1	620	100
Painter, Maintenance	380	.1	230	150
Plumber and Pipefitter	1,450	.3	1,040	410
Welders	570	.1	420	150
Maintenance Man, General Utility	2,210	.4	1,010	1,200
Helper, Maintenance Trades	750	.1	350	400
Stationary Engineer	530	.1	160	370
Stationary Boiler Fireman	1,220	.2	360	860
All Other Maintenance, Construction, Repair and Power Plant Occup.	2,780	.5	1,570	1,210
Managers and Officers	25,560	4.9	16,170	9,390
Managers, Engineering	3,270	.6	2,700	570
Manager, Scientific	900	.2	620	280
All Other Managers and Officers	21,390	4.1	12,850	8,540
Professional Occupations, Scientific	18,130	3.5	15,120	3,010

See footnotes page 11

TABLE 1 continued

OCCUPATIONAL GROUP	Total		Durable Goods	Non-Durable Goods
	Number	Percent		
Engineers	13,800	2.7	12,200	1,600
Mechanical Engineer	4,050	.8	3,710	340
Aeronautical and Astronautical Engineers	20	-	20	-
Metallurgists and Metallurgical Engineers	160	**	160	-
Electrical and Electronic Engineers	4,180	.8	4,090	90
Chemical Engineer	760	.1	160	600
Industrial Engineer	1,360	.3	1,020	340
Safety Engineer	100	**	80	20
Civil Engineer	60	**	40	20
All Other Engineers	3,110	.6	2,920	190
Mathematical Scientists	320	.1	310	10
Mathematician	160	**	160	*
Statistician	110	**	100	10
All Other Mathematical Scientists	50	**	50	-
Physical Scientists	1,540	.3	460	1,080
Chemist	1,250	.2	220	1,030
Physicist	150	**	140	10
All Other Physical Scientists	140	**	100	40
Other Scientific Occupations	280	.1	250	30
Life Scientists	280	.1	250	30
Social Scientists	*	*	*	*
Systems Analyst, Electronic Data Processing	850	.2	650	200
Systems Analyst, Business	730	.1	540	190
Systems Analyst, Scientific and Technical	120	**	110	10
All Other Professional Workers, Scientific	1,340	.3	1,250	90
Professional Occupations, Nonscientific	11,780	2.3	9,050	2,730
Accountants and Auditors	3,650	.7	2,560	1,090
Purchasing Agent and/or Buyer	2,490	.5	1,840	650
Lawyer	170	**	120	50
Personnel and Labor Relations Specialists	990	.2	750	240
Designer	900	.2	690	210
Commercial Artist	180	**	180	-
Commercial Photographer	110	**	110	-
Registered Nurse	230	.1	230	-
Technical Writers and Editors	440	.1	440	-
All Other Professional Workers, Nonscientific	2,620	.5	2,130	490
Technical Occupations	17,590	3.4	15,050	2,540
Computer Programmer	1,570	.3	1,300	270
Computer Programmer, Business	860	.2	590	270
Computer Programmer, Scientific & Technical	710	.1	710	*
Engineering Technicians	11,230	2.2	10,560	670
Draftsman	4,550	.9	4,350	200
Mechanical Engineering Technician	1,820	.4	1,820	-

Sec footnotes page 11

See footnotes page 11

TABLE I Continued

OCCUPATIONAL GROUP	Total		Durable Goods	Non-Durable Goods
	Number	Percent		
Electrical & Electronic Technicians	2,900	.6	2,840	60
Tool Programmer, Numerical Control	110	**	110	-
All Other Engineering Technicians	1,850	.4	1,440	410
Lab Tester	40	**	-	40
Science Technician	1,280	.2	760	520
All Other Technicians	3,470	.7	2,430	1,040
Sales Occupations	12,820	2.5	6,180	6,640
Salesman	10,770	2.1	5,250	5,520
Sales Clerk	2,050	.4	930	1,120
Clerical Occupations	59,670	11.5	38,050	21,620
Office Clerical	44,790	8.6	28,170	16,620
Switchboard Operator	420	.1	280	140
Receptionist	390	.1	240	150
Switchboard Operator-Receptionist	1,280	.2	730	550
Secretary	8,020	1.5	5,990	2,030
Stenographer	1,540	.3	1,100	440
Typists	3,670	.7	2,550	1,120
File Clerk	900	.2	550	350
General Clerk	7,180	1.4	4,280	2,900
Payroll and/or Timekeeping Clerk	2,620	.5	1,350	1,270
Personnel Clerk	650	.1	430	220
Procurement Clerk	670	.1	500	170
Order Clerk	2,290	.4	1,400	890
Bookkeeper, Hand	3,010	.6	1,430	1,580
Accounting Clerk	3,670	.7	2,230	1,440
Office Machine Operators	5,260	1.0	3,070	2,190
Bookkeeping & Billing Machine Operator	1,090	.2	480	610
Computer Operator	970	.2	650	320
Keypunch Operator	1,930	.4	1,160	770
Peripheral Equipment Operator	170	**	90	80
Tabulating Machine Operator	130	**	70	60
All Other Office Machine Operators	970	.2	620	350
All Other Office Clerical Workers	3,220	.6	2,040	1,180
Plant Clerical	14,880	2.9	9,880	5,000
Production Clerk and/or Coordinator	3,480	.7	2,540	940
Shipping Packer	2,600	.5	1,260	1,340
Shipping and/or Receiving Clerk	3,550	.7	1,930	1,620
Stock Clerk	2,280	.4	1,790	490
All Other Plant Clerical Workers	2,970	.6	2,360	610
Production Workers	335,760	64.8	173,840	161,920

TABLE 2

OCCUPATIONS OF EMPLOYEES IN MANUFACTURING INDUSTRIES 1/
DURABLE GOODS INDUSTRIES #
MASSACHUSETTS
APRIL-JUNE 1971

OCCUPATIONAL GROUP	Total	DURABLE GOODS INDUSTRIES								
		Sic 24	Sic 25	Sic 33	Sic 34	Sic 35	Sic 36	Sic 37	Sic 38	Sic 39
GRAND TOTAL	293,980	4,360	9,930	16,920	36,830	66,300	80,830	23,600	30,640	24,570
Service Occupations	5,340	110	120	430	530	1,490	1,340	300	730	290
Foreman, Nonworking	300	-	20	20	40	80	80	20	30	10
Janitors, Porters and Cleaners	3,100	30	60	210	300	910	740	180	470	200
Guards, Watchmen, and Doorkeepers	1,510	20	30	170	130	330	460	90	220	60
All Other Service Occupations	430	60	10	30	60	170	60	10	10	20
Maintenance, Construction, Repair, and Power Plant Occup.	15,180	160	420	1,380	2,130	2,990	2,950	2,850	1,490	810
Foreman, Nonworking	1,030	*	20	90	80	180	460	60	80	60
Carpenter	970	40	120	40	40	150	100	340	90	50
Electrician	1,660	*	*	100	90	300	300	560	230	80
Instrument Repairman	210	-	-	30	10	10	60	30	60	10
Machine Tool Operator, Toolroom	890	-	-	20	160	340	170	90	70	40
Machinist, Maintenance	1,320	*	40	190	220	320	210	50	140	150
Mechanics and Repairmen	2,400	20	50	280	360	280	630	230	450	100
Mechanic, Aircraft	10	-	-	-	*	*	-	10	-	-
Mechanic, Automotive	350	10	10	80	30	40	20	140	10	10
Mechanic, Maintenance	1,500	10	10	200	270	140	380	30	370	90
All Other Mechanics and Repairmen	540	*	30	*	60	100	230	50	70	*
Millwright	940	-	10	40	70	290	110	340	40	40
Sheet Metal Worker, Maintenance	620	40	-	40	310	80	70	20	60	*
Painter Maintenance	230	-	10	20	20	50	40	40	30	20
Plumber and Pipefitter	1,040	-	-	40	40	180	180	550	10	40
Welders	420	10	-	90	50	20	40	200	*	10
Maintenance Man, General Utility	1,010	30	60	120	160	200	300	20	60	60
Helper, Maintenance Trades	350	*	10	30	80	70	70	10	30	50
Stationary Engineer	160	*	*	10	20	40	50	20	10	10
Stationary Boiler Fireman	360	10	30	40	40	80	60	20	50	30
All Other Maintenance, Construction, Repair and Power Plant Occup.	1,570	10	70	200	380	400	100	270	80	60
Managers and Officers	16,170	300	400	720	2,070	3,810	4,230	1,240	2,280	1,120
Managers, Engineering	2,700	30	10	100	260	720	720	260	530	70
Manager, Scientific	620	10	-	20	10	90	110	220	140	20
All Other Managers and Officers	12,850	260	390	600	1,800	3,000	3,400	760	1,610	1,030
Professional Occupations, Scientific	15,120	10	30	180	800	3,920	5,530	1,480	3,020	150

See footnotes page 11

TABLE 2 Continued

OCCUPATIONAL GROUP	Total	DURABLE GOODS INDUSTRIES #								
		Sic 24	Sic 25	Sic 33	Sic 34	Sic 35	Sic 36	Sic 37	Sic 38	Sic 39
Engineers	12,200	10	30	150	620	3,030	5,050	1,130	2,060	120
Mechanical Engineer	3,710	*	10	40	320	1,430	790	760	310	50
Aeronautical and Astronautical Engineers	20	-	-	-	-	-	10	10	*	-
Metallurgists and Metallurgical Engineers	160	-	-	10	10	60	30	40	10	-
Electrical and Electronic Engineers	4,090	-	-	*	50	970	2,540	40	480	10
Chemical Engineer	160	-	-	*	10	30	90	10	20	*
Industrial Engineer	1,020	10	20	50	100	240	300	60	180	60
Safety Engineer	80	-	*	*	10	20	30	10	10	*
Civil Engineer	40	-	-	*	10	20	10	*	-	-
All Other Engineers	2,920	*	-	50	110	260	1,250	200	1,050	*
Mathematical Scientists	310	-	-	-	*	150	120	20	10	10
Mathematician	160	-	-	-	-	90	60	*	10	-
Statistician	100	*	-	*	*	10	60	20	*	10
All Other Mathematical Scientists	50	-	-	-	-	50	-	-	-	-
Physical Scientists	460	-	-	20	120	60	170	10	60	20
Chemist	220	-	-	20	20	20	100	10	30	20
Physicist	140	-	-	-	*	40	70	*	30	-
All Other Physical Scientists	100	-	-	-	100	-	-	-	*	-
Other Scientific Occupations	250	-	-	-	10	-	-	-	240	-
Life Scientists	250	-	-	-	10	-	-	-	240	-
Social Scientists	*	-	*	-	-	-	-	-	*	-
Systems Analyst, Electronic Data Processing	650	-	-	10	40	290	130	80	100	-
Systems Analyst, Business	540	-	-	10	30	250	110	60	80	*
Systems Analyst, Scientific and Technical	110	*	-	-	10	40	20	20	20	*
All Other Professional Workers, Scientific	1,250	-	-	-	10	390	60	240	550	-
Professional Occupations, Nonscientific	9,050	80	140	290	720	2,040	2,530	1,000	1,760	490
Accountants and Auditors	2,560	20	40	130	270	600	740	210	390	160
Purchasing Agent and/or Buyer	1,840	30	50	70	250	410	580	90	220	140
Lawyer	120	-	-	*	*	20	60	10	30	*
Personnel and Labor Relations Specialists	750	10	20	40	40	200	170	100	120	50
Designer	690	10	10	10	10	90	190	130	150	90
Commercial Artist	180	-	-	-	20	60	60	-	40	-
Commercial Photographer	110	-	-	-	10	60	20	10	10	-
Registered Nurse	230	-	-	-	40	60	80	20	30	-
Technical Writers and Editors	440	-	-	-	*	160	90	70	120	-
All Other Professional Workers, Nonscientific	2,130	10	20	40	80	380	540	360	650	50
Technical Occupations	15,050	30	20	340	730	5,160	4,710	810	3,070	180
Computer Programmer	1,300	-	-	30	80	610	340	30	150	60
Computer Programmer, Business	590	-	*	30	60	120	240	30	60	50
Computer Programmer, Scientific & Technical	710	*	-	*	20	490	100	-	90	10
Engineering Technicians	10,560	30	20	190	550	3,550	3,830	690	1,580	120
Draftsman	4,350	30	20	80	410	1,610	1,310	320	500	70
Mechanical Engineering Technician	1,820	-	-	-	60	380	720	150	510	-

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TABLE 2 Continued

OCCUPATIONAL GROUP	Total	DURABLE GOODS INDUSTRIES#								
		Sic 24	Sic 25	Sic 33	Sic 34	Sic 35	Sic 36	Sic 37	Sic 38	Sic 39
Electrical & Electronic Technicians	2,840	-	-	10	20	870	1,540	40	340	20
Tool Programmer Numerical Control	110	-	-	-	*	90	20	-	*	-
All Other Engineering Technicians	1,440	-	-	100	60	600	240	180	230	30
Lab Tester	-	-	-	-	-	-	-	-	-	-
Science Technician	760	-	-	30	10	70	20	*	630	-
All Other Technicians	2,430	*	-	90	90	930	520	90	710	-
Sales Occupations	6,180	210	310	300	1,070	1,830	740	130	420	1,170
Salesman	5,250	190	290	250	1,010	1,510	600	120	380	900
Sales Clerks	930	20	20	50	60	320	140	10	40	270
Clerical Occupations	38,050	400	870	1,600	4,380	10,440	10,300	2,250	4,580	3,230
Office Clerical	28,170	340	730	1,150	3,310	7,740	7,460	1,650	3,310	2,480
Switchboard Operator	280	20	-	10	30	40	110	10	30	30
Receptionist	240	10	10	*	30	50	60	*	30	50
SwitchboardOperator-Receptionist	730	10	30	20	110	200	220	20	70	50
Secretary	5,990	90	80	200	530	1,620	1,680	320	1,110	360
Stenographer	1,100	10	20	50	90	290	340	160	70	70
Typists	2,550	10	40	110	260	690	760	120	300	260
File Clerk	550	*	30	20	70	140	120	*	80	90
General Clerk	4,280	50	180	150	810	1,040	910	430	400	310
Payroll and/or Timekeeping Clerk	1,350	10	60	130	180	410	280	70	80	130
Personnel Clerk	430	*	10	10	40	60	110	30	140	30
Procurement Clerk	500	*	10	30	50	140	130	50	60	30
Order Clerk	1,400	10	20	50	140	250	600	20	180	130
Bookkeeper, Hand	1,430	90	70	80	280	320	260	70	100	160
Accounting Clerk	2,230	20	40	110	190	640	790	60	190	190
Office Machine Operators	3,070	10	40	140	280	850	890	220	350	290
Bookkeeping & Billing Machine Operator	480	10	30	40	80	150	70	20	10	70
Computer Operator	650	*	-	30	50	170	280	10	70	40
Keypunch Operator	1,160	*	*	50	110	320	310	80	160	130
Peripheral Equipment Operator	90	-	-	*	10	10	20	10	30	10
Tabulating Machine Operator	70	*	-	*	10	20	20	10	10	-
All Other Office Machine Operators	620	*	10	20	20	180	190	90	70	40
All Other Office Clerical Workers	2,040	-	90	40	220	1,000	200	70	120	300
Plant Clerical	9,880	60	140	450	1,070	2,700	2,840	600	1,270	750
Production Clerk and/or Coordinator	2,540	10	40	140	160	820	600	260	320	190
Shipping Packer	1,260	10	20	40	260	280	290	40	140	180
Shipping and/or Receiving Clerk	1,930	30	60	120	290	440	580	30	190	190
Stock Clerk	1,790	10	10	40	240	470	450	170	320	80
All Other Plant Clerical Workers	2,360	-	10	110	120	690	920	100	300	110
Production Workers	173,840	3,060	7,620	11,680	24,400	34,620	48,500	13,540	13,290	17,130

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TABLE 2 A
PERCENT DISTRIBUTION OF OCCUPATIONS OF EMPLOYEES IN MANUFACTURING INDUSTRIES 1/
DURABLE GOODS INDUSTRIES #
MASSACHUSETTS
APRIL-JUNE 1971

OCCUPATIONAL GROUP	Total	DURABLE GOODS INDUSTRIES								
		Sic 24	Sic 25	Sic 33	Sic 34	Sic 35	Sic 36	Sic 37	Sic 38	Sic 39
GRAND TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Service Occupations	1.8	2.5	1.2	2.5	1.4	2.2	1.7	1.3	2.4	1.2
Foreman, Nonworking	.1	-	.2	.1	.1	.1	.1	.1	.1	**
Janitors, Porters and Cleaners	1.1	.7	.6	1.2	.8	1.4	.9	.8	1.5	.8
Guards, Watchmen, and Doorkeepers	.5	.5	.3	1.0	.4	.5	.6	.4	.7	.2
All Other Service Occupations	.1	1.4	.1	.2	.2	.3	.1	**	**	.1
Maintenance, Construction, Repair, and Power Plant Occup.	5.2	3.7	4.2	8.2	5.8	4.5	3.6	12.1	4.9	3.3
Foreman, Nonworking	.4	**	.2	.5	.2	.3	.6	.3	.3	.2
Carpenter	.3	.9	1.2	.2	.1	.2	.1	1.4	.3	.2
Electrician	.6	**	**	.6	.2	.5	.4	2.4	.8	.3
Instrument Repairman	.1	-	-	.2	**	**	.1	.1	.2	**
Machine Tool Operator, Toolroom	.3	-	-	.1	.4	.5	.2	.4	.2	.2
Machinist, Maintenance	.4	**	.4	1.1	.6	.5	.3	.2	.5	.6
Mechanics and Repairmen	.8	.5	.5	1.7	1.0	.4	.8	1.0	1.5	.4
Mechanic, Aircraft	**	-	-	-	**	**	-	**	-	-
Mechanic, Automotive	.1	.2	.1	.5	.1	.1	**	.6	**	**
Mechanic, Maintenance	.5	.2	.1	1.2	.7	.2	.5	.1	1.2	.4
All Other Mechanics and Repairmen	.2	**	.3	**	.2	.2	.3	.2	.2	**
Millwright	.3	-	.1	.2	.2	.4	.1	1.4	.1	.2
Sheet Metal Worker, Maintenance	.2	.9	-	.2	.8	.1	.1	.1	.2	**
Painter, Maintenance	.1	-	.1	.1	.1	.1	.1	.2	.1	.1
Plumber and Pipefitter	.4	-	-	.2	.1	.3	.2	2.3	**	.2
Welders	.1	.2	-	.5	.1	**	.1	.8	**	**
Maintenance Man, General Utility	.3	.7	.6	.7	.4	.3	.4	.1	.2	.2
Helper, Maintenance Trades	.1	**	.1	.2	.2	.1	.1	**	.1	.2
Stationary Engineer	.1	**	**	.1	.1	.1	.1	.1	**	**
Stationary Boiler Fireman	.1	.2	.3	.2	.1	.1	.1	.1	.2	.1
All Other Maintenance, Construction, Repair and Power Plant Occup.	.5	.2	.7	1.2	1.0	.6	.1	1.1	.3	.2
Managers and Officers	5.5	6.9	4.0	4.3	5.6	5.7	5.2	5.3	7.4	4.6
Managers, Engineering	.9	.7	.1	.6	.7	1.1	.9	1.1	1.7	.3
Manager, Scientific	.2	.2	-	.1	**	.1	.1	.9	.5	.1
All Other Managers and Officers	4.4	6.0	3.9	3.5	4.9	4.5	4.2	3.2	5.3	4.2
Professional Occupations, Scientific	5.1	.2	.3	1.1	2.2	5.9	6.8	6.3	9.9	.6

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TABLE 2 A Continued

OCCUPATIONAL GROUP	Total	Sic 24	Sic 25	DURABLE GOODS INDUSTRIES # Sic 33	Sic 34	Sic 35	Sic 36	Sic 37	Sic 38	Sic 39
Engineers	4.1	.2	.3	.9	1.7	4.6	6.2	4.8	6.7	.5
Mechanical Engineer	1.3	**	.1	.2	.9	2.2	1.0	3.2	1.0	.2
Aeronautical and Astronautical Engineers	**	-	-	-	-	-	**	**	**	-
Metallurgists and Metallurgical Engineers	.1	-	-	.1	**	.1	**	.2	**	-
Electrical and Electronic Engineers	1.4	-	-	**	.1	1.5	3.1	.2	1.6	**
Chemical Engineer	.1	-	-	**	**	.1	.1	**	.1	**
Industrial Engineer	.3	.2	.2	.3	.3	.4	.4	.3	.6	.2
Safety Engineer	**	-	**	**	**	**	**	**	**	**
Civil Engineer	**	-	-	**	**	**	**	**	-	-
All Other Engineers	1.0	**	-	.3	.3	.4	1.5	.8	3.4	**
Mathematical Scientists	.1	-	-	-	**	.2	.1	.1	**	**
Mathematician	.1	-	-	-	-	.1	.1	**	**	-
Statistician	**	**	-	**	**	**	.1	.1	**	**
All Other Mathematical Scientists	**	-	-	-	-	.1	-	-	-	-
Physical Scientists	.2	-	-	.1	.3	.1	.2	**	.2	.1
Chemist	.1	-	-	.1	.1	**	.1	**	.1	.1
Physicist	.1	-	-	-	**	.1	.1	**	.1	-
All Other Physical Scientists	**	-	-	-	.3	-	-	-	**	-
Other Scientific Occupations	.1	-	-	-	**	-	-	-	.8	-
Life Scientists	.1	-	-	-	**	-	-	-	.8	-
Social Scientists	**	-	**	-	-	-	-	-	**	-
Systems Analyst, Electronic Data Processing	.2	-	-	.1	.1	.4	.2	.3	.3	-
Systems Analyst, Business	.2	-	-	.1	.1	.4	.1	.3	.3	**
Systems Analyst, Scientific and Technical	**	**	-	-	**	.1	**	.1	.1	**
All Other Professional Workers, Scientific	.4	-	-	-	**	.6	.1	1.0	1.8	-
Professional Occupations, Nonscientific	3.1	1.8	1.4	1.7	2.0	3.1	3.1	4.2	5.7	2.0
Accountants and Auditors	.9	.5	.4	.8	.7	.9	.9	.9	1.3	.7
Purchasing Agent and/or Buyer	.6	.7	.5	.4	.7	.6	.7	.4	.7	.6
Lawyer	**	-	-	**	**	**	.1	**	.1	**
Personnel and Labor Relations Specialists	.3	.2	.2	.2	.1	.3	.2	.4	.4	.2
Designer	.2	.2	.1	.1	**	.1	.2	.6	.5	.4
Commercial Artist	.1	-	-	-	.1	.1	.1	-	.1	-
Commercial Photographer	**	-	-	-	**	.1	**	**	**	-
Registered Nurse	.1	-	-	-	.2	.1	.1	.1	.1	-
Technical Writers and Editors	.1	-	-	-	**	.2	.1	.3	.4	-
All Other Professional Workers, Nonscientific	.7	.2	.2	.2	.2	.6	.7	1.5	2.1	.2
Technical Occupations	5.1	.7	.2	2.0	2.0	7.8	5.8	3.4	10.0	.7
Computer Programmer	.4	-	-	.2	.2	.9	.4	.1	.5	.2
Computer Programmer, Business	.2	-	**	.2	.2	.2	.3	.1	.2	.2
Computer Programmer, Scientific & Technical	.2	**	-	**	.1	.7	.1	-	.3	**
Engineering Technicians	3.6	.7	.2	1.1	1.5	5.4	4.7	2.9	5.2	.5
Draftsman	1.5	.7	.2	.5	1.1	2.4	1.6	1.4	1.6	.3
Mechanical Engineering Technician	.6	-	-	-	.2	.6	.9	.6	1.7	-

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TABLE 2 A Continued

OCCUPATIONAL GROUP	Total	DURABLE GOODS INDUSTRIES#								
		Sic 24	Sic 25	Sic 33	Sic 34	Sic 35	Sic 36	Sic 37	Sic 38	Sic 39
Electrical & Electronic Technicians	1.0	-	-	.1	.1	1.3	1.9	.2	1.1	.1
Tool Programmer Numerical Control	**	-	-	-	**	.1	**	-	**	-
All Other Engineering Technicians	.5	-	-	.6	.2	.9	.3	.8	.8	.1
Lab Tester	-	-	-	-	-	-	-	-	-	-
Science Technician	.3	-	-	.2	**	.1	**	**	2.1	-
All Other Technicians	.8	-	-	.5	.2	1.4	.6	.4	2.3	-
Sales Occupations	2.1	4.8	3.1	1.8	2.9	2.8	.9	.6	1.4	4.8
Salesman	1.8	4.4	2.9	1.5	2.7	2.3	.7	.5	1.2	3.7
Sales Clerks	.3	.5	.2	.3	.2	.5	.2	**	.1	1.1
Clerical Occupations	12.9	9.2	8.7	9.5	11.9	15.7	12.7	9.5	14.9	13.1
Office Clerical	9.6	7.8	7.3	6.8	9.0	11.7	9.2	7.0	10.8	10.1
Switchboard Operator	.1	.5	-	.1	.1	.1	.1	**	.1	.1
Receptionist	.1	.2	.1	**	.1	.1	.1	**	.1	.2
Switchboard Operator-Receptionist	.2	.2	.3	.1	.3	.3	.3	.1	.2	.2
Secretary	2.0	2.1	.8	1.2	1.4	2.4	2.1	1.4	3.6	1.5
Stenographer	.4	.2	.2	.3	.2	.4	.4	.7	.2	.3
Typist	.9	.2	.4	.7	.7	1.0	.9	.5	1.0	1.1
File Clerk	.2	**	.3	.1	.2	.2	.1	**	.3	.4
General Clerk	1.5	1.1	1.8	.9	2.2	1.6	1.1	1.8	1.3	1.3
Payroll and/or Timekeeping Clerk	.5	.2	.6	.8	.5	.6	.3	.3	.3	.5
Personnel Clerk	.1	**	.1	.1	.1	.1	.1	.1	.5	.1
Procurement Clerk	.2	**	.1	.2	.1	.2	.2	.2	.2	.1
Order Clerk	.5	.2	.2	.3	.4	.4	.7	.1	.6	.5
Bookkeeper, Hand	.5	2.1	.7	.5	.8	.5	.3	.3	.3	.7
Accounting Clerk	.8	.5	.4	.7	.5	1.0	1.0	.3	.6	.8
Office Machine Operators	1.0	.2	.4	.8	.8	1.3	1.1	.9	1.1	1.2
Bookkeeping & Billing Machine Operator	.2	.2	.3	.2	.2	.2	.1	.1	**	.3
Computer Operator	.2	**	-	.2	.1	.3	.3	**	.2	.2
Keypunch Operator	.4	**	**	.3	.3	.5	.4	.3	.5	.5
Peripheral Equipment Operator	**	-	-	**	**	**	**	**	.1	**
Tabulating Machine Operator	**	**	-	**	**	**	**	**	**	-
All Other Office Machine Operators	.2	**	.1	.1	.1	.3	.2	.4	.2	.2
All Other Office Clerical Workers	.7	-	.9	.2	.6	1.5	.2	.3	.4	1.2
Plant Clerical	3.4	1.4	1.4	2.7	2.9	4.1	3.5	2.5	4.1	3.1
Production Clerk and/or Coordinator	.9	.2	.4	.8	.4	1.2	.7	1.1	1.0	.8
Shipping Packer	.4	.2	.2	.2	.7	.4	.4	.2	.5	.7
Shipping and/or Receiving Clerk	.7	.7	.6	.7	.8	.7	.7	.1	.6	.8
Stock Clerk	.6	.2	.1	.2	.7	.7	.6	.7	1.0	.3
All Other Plant Clerical Workers	.8	-	.1	.7	.3	1.0	1.1	.4	1.0	.4
Production Workers	59.1	70.2	76.7	69.0	66.3	52.2	60.0	57.4	43.4	69.7

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TABLE 3

OCCUPATIONS OF EMPLOYEES IN MANUFACTURING INDUSTRIES 1/
NONDURABLE GOODS INDUSTRIES ø
MASSACHUSETTS
APRIL-JUNE 1971

OCCUPATIONAL GROUP	Total	NONDURABLE GOODS INDUSTRIES						
		Sic 20	Sic 22	Sic 23	Sic 26	Sic 28	Sic 30	Sic 31
GRAND TOTAL	224,390	34,850	28,650	46,660	32,690	18,340	31,700	31,500
Service Occupations	4,580	1,960	470	380	510	350	500	410
Foreman, Nonworking	410	100	60	40	50	30	30	100
Janitors, Porters and Cleaners	2,580	1,000	280	280	290	190	330	210
Guards, Watchmen, and Doorkeepers	580	100	100	30	110	90	80	70
All Other Service Occupations	1,010	760	30	30	60	40	60	30
Maintenance, Construction, Repair, and Power Plant Occup.	11,960	2,500	2,200	460	2,550	1,750	1,900	600
Foreman, Nonworking	710	130	80	30	180	120	130	40
Carpenter	330	60	60	20	60	50	40	40
Electrician	730	110	110	10	210	130	140	20
Instrument Repairman	140	20	10	*	30	40	40	*
Machine Tool Operator, Toolroom	-	-	-	-	-	-	-	-
Machinist, Maintenance	1,070	150	130	40	250	110	260	130
Mechanics and Repairmen	3,550	1,240	870	240	340	430	360	70
Mechanic, Aircraft	-	-	-	-	-	-	-	-
Mechanic, Automotive	540	410	10	10	80	20	10	*
Mechanic, Maintenance	1,900	640	220	40	230	400	300	70
All Other Mechanics and Repairmen	1,110	190	640	190	30	10	50	*
Millwright	580	10	90	-	280	70	90	40
Sheet Metal Worker, Maintenance	100	30	10	-	30	20	10	*
Painter, Maintenance	150	60	20	*	30	10	30	*
Plumber and Pipefitter	410	30	70	-	70	160	70	10
Welders	150	10	30	-	50	20	30	10
Maintenance Man, General Utility	1,200	260	200	70	230	180	180	80
Helper, Maintenance Trades	400	90	80	10	110	40	70	*
Stationary Engineer	370	90	50	*	130	60	30	10
Stationary Boiler Fireman	860	130	150	10	240	170	120	40
All Other Maintenance, Construction, Repair and Power Plant Occup.	1,210	80	240	30	310	140	300	110
Managers and Officers	9,390	2,040	1,000	1,350	1,530	1,460	1,050	960
Managers, Engineering	570	110	50	20	70	140	110	70
Manager, Scientific	280	30	20	-	40	140	40	10
All Other Managers and Officers	8,540	1,900	930	1,330	1,420	1,180	900	880
Professional Occupations, Scientific	3,010	200	320	30	490	1,000	900	70

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TABLE 3 Continued

OCCUPATIONAL GROUP	Total	NONDURABLE GOODS INDUSTRIES ø						
		Sic 20	Sic 22	Sic 23	Sic 26	Sic 28	Sic 30	Sic 31
Engineers	1,600	80	190	30	260	450	550	40
Mechanical Engineer	340	20	40	10	70	70	120	10
Aeronautical and Astronautical Engineers	-	-	-	-	-	-	-	-
Metallurgists and Metallurgical Engineers	-	-	-	-	-	-	-	-
Electrical and Electronic Engineers	90	*	10	-	30	30	20	-
Chemical Engineer	600	20	40	-	80	250	200	10
Industrial Engineer	340	30	90	20	50	30	100	20
Safety Engineer	20	10	*	-	-	*	10	*
Civil Engineer	20	*	*	-	10	*	10	-
All Other Engineers	190	*	10	*	20	70	90	-
Mathematical Scientists	10	-	10	-	-	-	-	-
Mathematician	*	-	-	-	*	*	-	-
Statistician	10	-	10	-	*	-	-	-
All Other Mathematical Scientists	-	-	-	-	-	-	-	-
Physical Scientists	1,080	70	90	-	140	490	260	30
Chemist	1,030	70	70	*	130	480	250	30
Physicist	10	*	10	-	-	*	-	-
All Other Physical Scientists	40	*	10	-	10	10	10	-
Other Scientific Occupations	30	10	-	-	-	20	-	-
Life Scientists	30	10	-	-	-	20	-	-
Social Scientist	*	*	-	-	-	-	-	-
Systems Analyst, Electronic Data Processing	200	20	30	-	40	20	90	-
Systems Analyst Business	190	20	30	*	30	20	90	*
Systems Analyst, Scientific and Technical	10	-	-	*	10	*	-	-
All Other Professional Workers, Scientific	90	20	*	-	50	20	*	-
Professional Occupations, Nonscientific	2,730	430	310	220	520	470	540	240
Accountants and Auditors	1,090	230	130	60	200	180	220	70
Purchasing Agent and/or Buyer	650	120	80	40	120	80	130	80
Lawyer	50	10	*	*	*	20	20	*
Personnel and Labor Relations Specialists	240	30	30	10	60	30	50	30
Designer	210	*	50	50	40	*	20	50
Commercial Artist	-	-	-	-	-	-	-	-
Commercial Photographer	-	-	-	-	-	-	-	-
Registered Nurse	-	-	-	-	-	-	-	-
Technical Writers and Editors	-	-	-	-	-	-	-	-
All Other Professional Workers, Nonscientific	490	40	20	60	100	160	100	10
Technical Occupations	2,540	240	270	50	430	750	740	60
Computer Programmer	270	50	40	30	40	40	70	-
Computer Programmer, Business	270	50	40	30	40	40	70	*
Computer Programmer, Scientific & Technical	*	*	*	*	*	-	*	-
Engineering Technicians	670	30	70	-	100	250	220	-
Draftsman	200	10	30	*	40	50	70	*
Mechanical Engineering Technician	-	-	-	-	-	-	-	-

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TABLE 3 Continued

OCCUPATIONAL GROUP	Total	NONDURABLE GOODS INDUSTRIES ø						
		Sic 20	Sic 22	Sic 23	Sic 26	Sic 28	Sic 30	Sic 31
Electrical & Electronic Technicians	60	10	10	-	20	20	-	*
Tool Programmer Numerical Control	-	-	-	-	-	-	-	-
All Other Engineering Technicians	410	10	30	-	40	180	150	-
Lab Tester	40	40	-	-	-	-	-	-
Science Technician	520	20	10	-	170	150	160	10
All Other Technicians	1,040	100	150	20	120	310	290	50
Sales Occupations	6,640	2,230	390	900	1,070	770	810	470
Salesman	5,520	1,580	320	710	1,040	700	750	420
Sales Clerk	1,120	650	70	190	30	70	60	50
Clerical Occupations	21.620	3,870	2,720	3,650	3,380	2,420	2,950	2,630
Office Clerical	16,620	3,160	1,940	2,390	2,740	1,920	2,410	2,060
Switchboard Operator	140	20	10	20	20	20	30	20
Receptionist	150	40	10	20	30	20	10	20
Switchboard Operator-Receptionist	550	90	70	70	100	70	70	80
Secretary	2,030	370	220	140	330	430	390	150
Stenographer	440	40	50	30	100	130	50	40
Typist	1,120	160	120	120	240	180	200	100
File Clerk	350	60	50	50	60	30	50	50
General Clerk	2,900	580	490	410	450	200	290	480
Payroll and/or Timekeeping Clerk	1,270	160	120	320	150	70	180	270
Personnel Clerk	220	60	20	20	40	20	40	20
Procurement Clerk	170	10	30	10	40	20	30	30
Order Clerk	890	140	100	80	190	110	150	120
Bookkeeper, Hand	1,580	310	130	500	160	110	130	240
Accounting Clerk	1,440	340	140	150	230	180	260	140
Office Machine Operators	2,190	530	240	380	340	150	340	210
Bookkeeping & Billing Machine Operator	610	130	60	150	100	40	50	80
Computer Operator	320	90	30	40	60	20	60	20
Keypunch Operator	770	150	110	110	140	70	140	50
Peripheral Equipment Operator	80	20	*	-	10	*	50	*
Tabulating Machine Operator	60	30	10	*	10	*	*	10
All Other Office Machine Operators	350	110	30	80	20	20	40	50
All Other Office Clerical Workers	1,180	250	140	70	260	180	190	90
Plant Clerical	5,000	710	780	1,260	640	500	540	570
Production Clerk and/or Coordinator	940	110	170	170	200	80	130	80
Shipping Packer	1,340	190	180	430	70	170	120	180
Shipping and/or Receiving Clerk	1,620	230	250	400	180	130	200	230
Stock Clerk	490	80	60	150	70	50	40	40
All Other Plant Clerical Workers	610	100	120	110	120	70	50	40
Production Workers	161,920	21,380	20,970	39,620	22,210	9,370	22,310	26,060

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TABLE 3 A
PERCENT DISTRIBUTION OF EMPLOYEES IN MANUFACTURING INDUSTRIES[1]
NONDURABLE GOODS INDUSTRIES∅
MASSACHUSETTS
APRIL-JUNE 1971

OCCUPATIONAL GROUP	Total	NONDURABLE GOODS INDUSTRIES						
		Sic 20	Sic 22	Sic 23	Sic 26	Sic 28	Sic 30	Sic 31
GRAND TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Service Occupations	2.0	5.6	1.6	.8	1.6	1.9	1.6	1.3
Foreman, Nonworking	.2	.3	.2	.1	.2	.2	.1	.3
Janitors, Porters and Cleaners	1.1	2.9	1.0	.6	.9	1.0	1.0	.7
Guards, Watchmen, and Doorkeepers	.3	.3	.3	.1	.3	.5	.3	.2
All Other Service Occupations	.5	2.2	.1	.1	.2	.2	.2	.1
Maintenance, Construction, Repair, and Power Plant Occup.	5.3	7.2	7.7	1.0	7.8	9.5	6.0	1.9
Foreman, Nonworking	.3	.4	.3	.1	.6	.7	.4	.1
Carpenter	.1	.2	.2	**	.2	.3	.1	.1
Electrician	.3	.3	.4	**	.6	.7	.4	.1
Instrument Repairman	.1	.1	**	**	.1	.2	.1	**
Machine Tool Operator, Toolroom	-	-	-	-	-	-	-	-
Machinist, Maintenance	.5	.4	.5	.1	.8	.6	.8	.4
Mechanics and Repairmen	1.6	3.6	3.0	.5	1.0	2.3	1.1	.2
Mechanic, Aircraft	-	-	-	-	-	-	-	-
Mechanic, Automotive	.2	1.2	**	.1	.2	.1	**	**
Mechanic, Maintenance	.8	1.8	.8	.1	.7	2.2	.9	.2
All Other Mechanics and Repairmen	.5	.5	2.2	.4	.1	.1	.2	**
Millwright	.3	**	.3	-	.9	.4	.3	.3
Sheet Metal Worker, Maintenance	**	.1	**	-	.1	.1	**	**
Painter, Maintenance	.1	.2	.1	**	.1	.1	.1	**
Plumber and Pipefitter	.2	.1	.2	-	.2	.9	.2	**
Welders	.1	**	.1	-	.2	.1	.1	**
Maintenance Man, General Utility	.5	.7	.7	.2	.7	1.0	.6	.3
Helper, Maintenance Trades	.2	.3	.3	**	.3	.2	.2	**
Stationary Engineer	.2	.3	.2	**	.4	.3	.1	**
Stationary Boiler Fireman	.4	.4	.5	**	.7	.9	.4	.1
All Other Maintenance, Construction, Repair and Power Plant Occup.	.5	.2	.8	.1	.9	.8	.9	.3
Managers and Officers	4.2	5.9	3.5	2.9	4.7	8.0	3.3	3.0
Managers, Engineering	.3	.3	.2	**	.2	.8	.3	.2
Manager, Scientific	.1	.1	.1	-	.1	.8	.1	**
All Other Managers and Officers	3.8	5.5	3.2	2.9	4.3	6.4	2.8	2.8
Professional Occupations, Scientific	1.3	.6	1.1	.1	1.5	5.5	2.8	.2

See footnotes page 11

TABLE 3 A Continued

OCCUPATIONAL GROUP	Total	NONDURABLE GOODS INDUSTRIES ∅						
		Sic 20	Sic 22	Sic 23	Sic 26	Sic 28	Sic 30	Sic 31
Engineers	.7	.2	.7	.1	.8	2.5	1.7	.1
Mechanical Engineer	.2	.1	.1	**	.2	.4	.4	**
Aeronautical and Astronautical Engineers	-	-	-	-	-	-	-	-
Metallurgists and Metallurgical Engineers	-	-	-	-	-	-	-	-
Electrical and Electronic Engineers	**	**	**	-	.1	.2	.1	-
Chemical Engineer	.3	.1	.1	-	.2	1.4	.6	**
Industrial Engineer	.2	.1	.3	**	.2	.2	.3	.1
Safety Engineer	**	**	**	-	-	**	**	**
Civil Engineer	**	**	**	-	**	**	**	-
All Other Engineers	.1	**	**	**	.1	.4	.3	-
Mathematical Scientists	**	-	**	-	-	-	-	-
Mathematician	**	-	-	-	**	**	-	-
Statistician	**	-	**	-	**	-	-	-
All Other Mathematical Scientists	-	-	-	-	-	-	-	-
Physical Scientists	.5	.2	.3	-	.4	2.7	.8	.1
Chemist	.5	.2	.2	**	.4	2.6	.8	.1
Physicist	**	**	**	-	-	**	-	-
All Other Physical Scientists	**	**	**	-	**	.1	**	-
Other Scientific Occupations	**	**	-	-	-	.1	-	-
Life Scientists	**	**	-	-	-	.1	-	-
Social Scientists	**	**	-	-	-	-	-	-
Systems Analyst, Electronic Data Processing	.1	.1	.1	-	.1	.1	.3	**
Systems Analyst, Business	.1	.1	.1	**	.1	.1	.3	**
Systems Analyst, Scientific and Technical	**	-	-	**	**	**	-	-
All Other Professional Workers, Scientific	**	.1	**	-	.2	.1	**	-
Professional Occupations, Nonscientific	1.2	1.2	1.1	.5	1.6	2.6	1.7	.8
Accountants and Auditors	.5	.7	.5	.1	.6	1.0	.7	.2
Purchasing Agent and/or Buyer	.3	.3	.3	.1	.4	.4	.4	.3
Lawyer	**	**	**	**	**	.1	.1	**
Personnel and Labor Relations Specialists	.1	.1	.1	**	.2	.2	.2	.1
Designer	.1	**	.2	.1	.1	**	.1	.2
Commercial Artist	-	-	-	-	-	-	-	-
Commercial Photographer	-	-	-	-	-	-	-	-
Registered Nurse	-	-	-	-	-	-	-	-
Technical Writers and Editors	-	-	-	-	-	-	-	-
All Other Professional Workers, Nonscientific	.2	.1	.1	.1	.3	.9	.3	**
Technical Occupations	1.1	.7	.9	.1	1.3	4.1	2.3	.2
Computer Programmer	.1	.1	.1	.1	.1	.2	.2	-
Computer Programmer, Business	.1	.1	.1	.1	.1	.2	.2	**
Computer Programmer, Scientific & Technical	**	**	**	**	**	-	**	-
Engineering Technicians	.3	.1	.2	-	.3	1.4	.7	-
Draftsman	.1	**	.1	**	.1	.3	.2	**
Mechanical Engineering Technician	-	-	-	-	-	-	-	-

See footnotes page 11

TABLE 3 A Continued

OCCUPATIONAL GROUP	Total	NONDURABLE GOODS INDUSTRIES ø						
		Sic 20	Sic 22	Sic 23	Sic 26	Sic 28	Sic 30	Sic 31
Electrical & Electronic Technicians	**	**	**	-	.1	.1	-	**
Tool Programmer Numerical Control	-	-	-	-	-	-	-	-
All Other Engineering Technicians	.2	**	.1	-	.1	1.0	.5	-
Lab Tester	**	.1	-	-	-	-	-	-
Science Technician	.2	.1	**	-	.5	.8	.5	**
All Other Technicians	.5	.3	.5	**	.4	1.7	.9	.2
Sales Occupations	3.0	6.4	1.4	1.9	3.3	4.2	2.6	1.5
Salesman	2.5	4.5	1.1	1.5	3.2	3.8	2.4	1.3
Sales Clerks	.5	1.9	.2	.4	.1	.4	.2	.2
Clerical Occupations	9.6	11.1	9.5	7.8	10.3	13.2	9.3	8.3
Office Clerical	7.4	9.1	6.8	5.1	8.4	10.5	7.6	6.5
Switchboard Operator	.1	.1	**	**	.1	.1	.1	.1
Receptionist	.1	.1	**	**	.1	.1	**	.1
Switchboard Operator-Receptionist	.2	.3	.2	.2	.3	.4	.2	.3
Secretary	.9	1.1	.8	.3	1.0	2.3	1.2	.5
Stenographer	.2	.1	.2	.1	.3	.7	.2	.1
Typists	.5	.5	.4	.3	.7	1.0	.6	.3
File Clerk	.2	.2	.2	.1	.2	.2	.2	.2
General Clerk	1.3	1.7	1.7	.9	1.4	1.1	.9	1.5
Payroll and/or Timekeeping Clerk	.6	.5	.4	.7	.5	.4	.6	.9
Personnel Clerk	.1	.2	.1	**	.1	.1	.1	.1
Procurement Clerk	.1	**	.1	**	.1	.1	.1	.1
Order Clerk	.4	.4	.3	.2	.6	.6	.5	.4
Bookkeeper, Hand	.7	.9	.5	1.1	.5	.6	.4	.8
Accounting Clerk	.6	1.0	.5	.3	.7	1.0	.8	.4
Office Machine Operators	1.0	1.5	0.8	.8	1.0	.8	1.1	.7
Bookkeeping & Billing Machine Operator	.3	.4	.2	.3	.3	.2	.2	.3
Computer Operator	.1	.3	.1	.1	.2	.1	.2	.1
Keypunch Operator	.3	.4	.4	.2	.4	.4	.4	.2
Peripheral Equipment Operator	**	.1	**	-	**	**	.2	**
Tabulating Machine Operator	**	.1	**	**	**	**	**	**
All Other Office Machine Operators	.2	.3	.1	.2	.1	.1	.1	.2
All Other Office Clerical Workers	.5	.7	.5	.2	.8	1.0	.6	.3
Plant Clerical	2.2	2.0	2.7	2.7	2.0	2.7	1.7	1.8
Production Clerk and/or Coordinator	.4	.3	.6	.4	.6	.4	.4	.3
Shipping Packer	.6	.5	.6	.9	.2	.9	.4	.6
Shipping and/or Receiving Clerk	.7	.7	.9	.9	.6	.7	.6	.7
Stock Clerk	.2	.2	.2	.3	.2	.3	.1	.1
All Other Plant Clerical Workers	.3	.3	.4	.2	.4	.4	.2	.1
Production Workers	72.2	61.3	73.2	84.9	67.9	51.1	70.4	82.7

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TABLE 4
OCCUPATIONS OF PRODUCTION WORKERS

Meat Products-SIC-201
Massachusetts
April-June 1971

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	2,890	100.0
Foreman Nonworking	110	3.8
Inspector	10	.3
Production Packager Hand/Machine	320	11.0
Slaughtering Breaking and Related	520	17.9
Boner Meat	240	8.3
Butcher All-Round	70	2.4
Carcass Splitter	*	*
Cooler Man	20	.6
Hide Puller	*	*
Poultry Oresser and/or Eviscer	120	4.1
Skinner	10	.3
Skin Peeling Machine Operator	20	.6
Slicing-Machine Operator	30	1.0
Stunner	*	*
All Others	10	.3
Cooking Curing Pickling Aging Related	240	8.3
Cook	30	1.0
Cooker Man	*	*
Ory Cure Man	40	1.3
Hide Handler	10	.3
Pickler	20	.6
Pumper	70	2.4
Salted Meats Conditioner	10	.3
Slunk Skin Curer	10	.3
Smoker	50	1.7
Mixing Compounding and Related	250	8.6
Casing Finisher and/or Stuffer	130	4.5
Casing Sewer	*	*
Press Operator Meat	10	.3
Sausage Maker	90	3.1
Seasoning Mixer	20	.6
Other Meat Processing Occupations	110	3.8
Grader	30	1.0
Lard Refiner	10	.3
Meat Grinder	70	2.4
Material Handling Workers	300	10.3
Industrial Truck Operator	20	.6
Oeliverymen and Routemen	90	3.1
Truck Oriver	90	3.1
Order Filler	100	3.4
All Other Production (Plant) Workers	1,030	35.6
All Other Skilled Craftsmen	50	1.7
All Other Operatives/Semi-Skilled	340	11.7
All Other Laborers/Unskilled Workers	640	22.1

See footnotes on page 11

TABLE 5

OCCUPATIONS OF PRODUCTION WORKERS

Dairy Products-SIC-202
Massachusetts
April-June 1971

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	3,420	100.0
Foreman Nonworking	70	2.0
Production Packager Hand/Machine	500	14.6
Production and Processing	590	17.2
Blender Conveyor Operator	*	*
Brine-Tank Man	20	.5
Cheesemaker	10	.3
Cheesemaker Helper	10	.2
Dairy Processing Equipment Operator	290	8.4
Decorator	10	.3
Drier Operator	10	.2
Flavor Room Man	80	2.3
Ingredient Scaler	10	.3
Instantizer Operator	*	*
Novelty Worker	140	4.0
Raw Cheese Worker	*	*
All Others	10	.3
Material Handling Workers	1,760	51.4
Industrial Truck Operator	20	.5
Deliverymen and Routemen	1,380	40.3
Truck Driver	100	2.9
Order Filler	260	7.6
All Other Production (Plant) Workers	500	14.6
All Other Skilled Craftsmen	20	.5
All Other Operatives/Semi-Skilled	210	6.1
All Other Laborers/Unskilled Workers	270	7.8

TABLE 6

OCCUPATIONS OF PRODUCTION WORKERS

Canned, Cured And Frozen Food-SIC-203
Massachusetts
April-June 1971

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	2,350	100.0
Foreman Nonworking	60	2.5
Inspector	30	1.2
Production Packager Hand/Machine	820	34.8
Mixing Crushing Grinding	520	22.1
Cutting Machine Tender	100	4.2
Fruit Press Operator	30	1.2
Sorting Machine Operator	10	.4
Washer Agricultural Produce	10	.4
Mixing Machine Operator	50	2.1
Butcher Fish	200	8.5
Fish Cleaner Hand	110	4.6
Iron-Chink Man	10	.4
Aging Drying Cooking	100	4.2
Brine Maker	*	*
Cook Fry Deep Fat	20	.8
Cook Kettle	20	.8
Pickler	60	2.5
Material Handling Workers	220	9.3
Industrial Truck Operator	60	2.5
Deliverymen and Routemen	10	.4
Truck Driver	100	4.2
Order Filler	50	2.1
All Other Production (Plant) Workers	600	25.5
All Other Skilled Craftsmen	50	2.1
All Other Operatives/Semi-Skilled	60	2.5
All Other Laborers/Unskilled Workers	490	20.8

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TABLE 7

OCCUPATIONS OF PRODUCTION WORKERS

Bakery Products-SIC-205
Massachusetts
April-June 1971

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	4,900	100.0
Foreman Nonworking	110	2.2
Inspector	10	.2
Production Packager Hand/Machine	330	6.7
Mixing Kneading Shaping	580	11.8
Batter Scaler	50	1.0
Batter Mixer/Icing Mixer	90	1.8
Bench Hand	100	2.0
Broth Mixer	10	.2
Dividing Machine/Operator	60	1.2
Dough Mixer/Operator	110	2.2
Grain-Wafer-Machine Operator	*	*
Ingredient Scaler	30	.6
Slicing Machine Operator	130	2.6
Cooking and Baking Occupations	1,170	23.8
Baker	320	6.5
Baker Helper	610	12.4
Chocolate Temperer	10	.2
Doughnut Maker	40	.8
Ovenman	190	3.8
Coating Icing Decorating	70	1.4
Cake Decorator	30	.6
Decorator	10	.2
Depositing-Machine Operator	20	.4
Enrobing Machine Operator/Icer	10	.2
Material Handling Workers	1,780	36.3
Cranemen Derrickmen Hoistmen	10	.2
Industrial Truck Operator	*	*
Deliverymen and Routemen	1,420	28.9
Truck Driver	240	4.9
Order Filler	110	2.2
All Other Production (Plant) Workers	850	17.3
All Other Skilled Craftsmen	30	.6
All Other Operatives/Semi-Skilled	200	4.0
All Other Laborers/Unskilled Workers	620	12.6

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TABLE 8

OCCUPATIONS OF PRODUCTION WORKERS

Beverages-SIC-208
Massachusetts
April-June 1971

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	2,330	100.0
Foreman Nonworking	120	5.1
Production Packager Hand/Machine	690	29.6
Distilled Liquor Operations	40	1.7
Bottle Gager	*	*
Fermentation Operator	*	*
Liquor Blender	30	1.2
Still Operator	*	*
Yeast Distiller	*	*
All Others	10	.4
Flavoring Extracts and Sirups	70	3.0
Blending Tank Tender	10	.4
Cook Kettle	10	.4
Sirup Maker	50	2.1
Malt and Malt Liquors	50	2.1
Barley Steeper/Malt House Operator	*	*
Carbonation Man	10	.4
Cooling Machine Operator	*	*
De-Alcoholizer	10	.4
Dropper Fermenting Cellar	*	*
Kettleman	*	*
Miller	*	*
Receiver Fermenting Cellars	*	*
Silica-Filter Operator	*	*
Yeast Pusher	10	.4
All Others	20	.8
Material Handling Workers	840	36.0
Cranemen Derrickmen Hoistmen	*	*
Industrial Truck Driver	180	7.7
Deliverymen and Routemen	500	21.4
Truck Driver	130	5.5
Order Filler	30	1.2
All Other Production (Plant) Workers	520	22.3
All Other Skilled Craftsmen	30	1.2
All Other Operatives/Semi-Skilled	50	2.1
All Other Laborers/Unskilled Workers	440	18.8

See footnotes on page 11

TABLE 9

OCCUPATIONS OF PRODUCTION WORKERS

Grain Mill Products, Sugar And Misc. Food Products
(SIC-204, 206, 207, 209)
Massachusetts
April-June 1971

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	5,590	100.0
Foreman Nonworking	160	2.8
Inspector	50	.8
Production Packager Hand/Machine	2,310	41.3
General Production Occupations	1,140	20.3
Bolter	10	.1
Bulk-Plant Operator Sugar	20	.3
Bulk-Systems Operator	10	.1
Candy Maker	170	3.0
Candy Molder	90	1.6
Candy Roller Hand	10	.1
Carbonation Man Sugar	30	.5
Centrifuge Operator/Centrifugal	40	.7
Chocolate Temperer Confection	20	.3
Clarifier	*	*
Coating Machine Operator	70	1.2
Conche Operator	10	.1
Cooker Steam	50	.8
Cooler Man Sugar	30	.5
Crystallizer Operator	*	*
Cubelet Station Operator	10	.1
Cutting Machine Operator Candy	60	1.0
Orier Operator	50	.8
Dry Starch Operator Automatic	*	*
Extractor Operator Grease	*	*
Extruder Operator	20	.3
Feed Pellet Mill Operator	10	.1
Filter Operator	40	.7
Fireman Kiln	*	*
Flaking Roll Operator	*	*
Grain Receiver	10	.1
Ice Maker	20	.3
Melter Operator	10	.1
Miller	40	.7
Mixer	50	.8
Mogul Operator Confection	30	.5
Nib Analyzer Confection	*	*
Noodle Pressman	10	.1
Ovenman and/or Oven Operator	10	.1
Pasteurizer	10	.1
Presser	*	*
Refined Sirup Operator	10	.1
Refinery Operator	40	.7

TABLE 9

OCCUPATIONS OF PRODUCTION WORKERS

Grain Mill Products, Sugar And Misc. Food Products
(SIC-204, 206, 207, 209)
Massachusetts
April-June 1971
(Continued)

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Roaster	10	.1
Roaster Cocoa Bean	10	.1
Rolling Machine Operator	10	.1
Sirup Maker	10	.1
Spinner Confection	60	1.0
Sugar Boiler	20	.3
All Others	30	.5
Material Handling Workers	700	12.5
Cranemen Derrickmen Hoistmen	20	.3
Industrial Truck Operator	170	3.0
Deliverymen and Routemen	70	1.2
Truck Driver	300	5.3
Order Filler	140	2.5
All Other Production (Plant) Workers	1,230	22.0
All Other Skilled Craftsmen	120	2.1
All Other Operatives/Semi-Skilled	320	5.7
All Other Laborers/Unskilled Workers	790	14.1

TABLE 10

OCCUPATIONS OF PRODUCTION WORKERS

Textile Mill Products-SIC-22
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	21,020	100.0
Foreman Nonworking	1,020	4.8
Inspector	960	4.5
Production Packager Hand/Machine	740	3.5
General Textile Occupations	1,150	5.4
Burler	100	.4
Cloth Trimmers Machine/Shearing	150	.7
Cloth Winder	140	.6
Creeler	120	.5
Cutter Portable Machine	140	.6
Cutter Stationary Machine	140	.6
Doffer	160	.7
Mender	200	.9
Carding Combing Drawing	1,210	5.7
Blending-Machine Operator	130	.6
Card Grinder	50	.2
Card Tenders/Card Strippers	630	3.0
Drawing-Frame Tenders/Gill-Box	150	.7
Opener Tender/Waste Machine Tender	30	.1
Picker Tender	180	.8
Slubber Tender	30	.1
Staple Cutters/Staple Process	10	.0
Twisting Beaming Warping Spinning	2,230	10.6
Beam-Warper Tenders Automatic	140	.6
Bobbin Winders Machine	60	.2
Dresser Tender	60	.2
Quilling Machine Operator Automatic	60	.2
Speeder Tender	40	.1
Spinner Frame	490	2.3
Twister Tender	280	1.3
Warp-Tying-Machine Tender	60	.2
Winder Operator Automatic	140	.6
Yarn Winder	900	4.2
Weaving Lace Making Needle-Felt	1,240	5.9
Battery Loader	50	.2
Card Cutter Jacquard	10	.0
Drawing-In-Machine Tender	40	.1
Harness Builders Loom Changers	30	.1
Harness Man Placing-In	20	.1
Loom Winder Tender	110	.5
Needle-Felt-Making Machine Operator	80	.3
Smash Hand	90	.4
Weaver	810	3.8

TABLE 10

OCCUPATIONS OF PRODUCTION WORKERS

Textile Mill Products-SIC-22
Massachusetts
April-June 1971
(Continued)

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Knitting Occupations	600	2.8
Boarding-Machine Operator	60	.2
Knitter Full-Fashioned Garment	20	.0
Knitting-Machine Operator	480	2.2
Looper	30	.1
Seamless-Hosiery Knitter	10	.0
Transfer Knitter	*	*
Bleaching Dyeing Washing Steaming	1,520	7.2
Ager Operator	60	.2
Beam-Dyer Operator	150	.7
Bleach-Range Operator	90	.4
Boil-Off Machine Operator	40	.1
Chemical Mixer	170	.8
Desizing-Machine Operator Head	20	.0
Dye-Range Operators	190	.9
Dye-Reel Operators Jiggers	180	.8
Dye-Tank Men Nets	80	.3
Dye-Tub Operators Random Dyers	90	.4
Dye-Weigher	210	1.0
Scouring-Train Operator	80	.3
Skein Yarn Dyer	130	.6
Slasher Tender	30	.1
Finishing Occupations	3,240	15.4
Calendaring-Machine Operator	30	.1
Calendar Operator Cloth Press	120	.5
Coating-Machine Operator	310	1.4
Cloth Feeders/Back Tenders	290	1.3
Cloth-Finishing-Range Middleman	210	1.0
Cloth-Finishing-Range Operator Chief	120	.5
Cloth-Shrinking-Machine Operator	70	.3
Drier-and-Rewinder Operator	50	.2
Dry-Cans Operator	170	.8
Folding-Machine Operator	90	.4
Fuller	130	.6
Laminating-Machine Operator	70	.3
Mercerizer Operator	80	.3
Napper Tender	50	.2
Rubber-Covering-Machine Operator	70	.3
Sewing-Machine Operator Regular Equipment	600	2.8
Sewing-Machine Operator Special Equipment	430	2.0
Singer	30	.1

See footnotes on page 11

TABLE 10

OCCUPATIONS OF PRODUCTION WORKERS

Textile Mill Products-SIC-22
Massachusetts
April-June 1971
(Continued)

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Tenter-Frame Operator	240	1.1
Tumbler Operator	20	.1
Washer Synthetic Fibers	60	.2
Printing Occupations	360	1.7
Back Tender Cloth Printing	120	.5
Cloth Printer	130	.6
Screen Cutter	10	.0
Screen Printer	40	.1
Screen-Printing-Machine Operator	60	.2
Material Handling Workers	630	3.0
Cranemen Derrickmen Hoistmen	20	.1
Industrial Truck Operator	290	1.3
Deliverymen and Routemen	20	.1
Truck Driver	140	.6
Order Filler	160	.7
All Other Production (Plant) Workers	6,120	29.1
All Other Skilled Craftsmen	600	2.8
All Other Operatives/Semi-Skilled	3,480	16.5
All Other Laborers/Unskilled Workers	2,040	9.7

TABLE 11

OCCUPATIONS OF PRODUCTION WORKERS

Apparel & Other Textile Products-SIC-23
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	39,630	100.0
Foreman Nonworking	860	2.1
Inspector	770	1.9
Production Packager Hand/Machine	280	.7
General Production Occupations	33,720	85.0
Sample Maker	350	.8
Pattern Maker	190	.4
Pattern Cutter	170	.4
Spreader	470	1.1
Marker	280	.7
Hand Cutter	290	.7
Machine Cutter	910	2.3
Bundler	770	1.9
Shaper and Presser	220	.5
Folding Machine Operator	120	.3
Shuttler	30	.0
Embroiderer Hand	220	.5
Sewing Machine Operator Regular	19,170	48.3
Sewing Machine Operator Special	3,360	8.4
Hand Sewer	890	2.2
Garment Repairman	180	.4
All-Around Tailor	100	.2
Thread Trimmer	1,540	3.8
Fusing Machine Operator	100	.2
Draper	140	.3
Cementer	10	.0
Hand Presser	1,220	3.0
Machine Presser	1,180	2.9
Pleating Machine Operator	80	.2
Spot Cleaner	90	.2
Garment Folder	700	1.7
Work Distributor	940	2.3
Hat and Cap Occupations	190	.4
Cap Maker	150	.3
Hand Blocker	30	.0
Stiffener	10	.0
Material Handling Workers	760	1.9
Industrial Truck Operator	10	.0
Deliverymen and Routemen	*	*
Truck Driver	90	.2
Order Filler	660	1.6
All Other Production (Plant) Workers	3,050	7.7
All Other Skilled Craftsmen	180	.4
All Other Operatives/Semi-Skilled	1,540	3.8
All Other Laborers/Unskilled Workers	1,330	3.3

See footnotes on page 11

TABLE 12

OCCUPATIONS OF PRODUCTION WORKERS

Lumber And Wood Products-SIC-24
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	3,130	100.0
Foreman Nonworking	90	2.8
Inspector	20	.6
Production Packager Hand/Machine	30	.9
Logging Occupations	60	1.9
Faller/Bucker	10	.3
Log Inspectors/Graders	*	*
Rigging Slinger	10	.3
Second Loader	*	*
Timber Cruiser	10	.3
Tractor Operator	30	.9
Saw and Planing Mill Occupations	120	3.8
Barker	10	.3
Bolter	10	.3
Head Sawyer	20	.6
Kiln Operator	10	.3
Lumber Grader	20	.6
Resawyer	20	.6
Tallyman	20	.6
Trimmerman	10	.3
Wood Machining Occupations	940	30.0
Band-Scroll Saw Operator	40	1.2
Boring Machine Operator	40	1.2
Cut-Off-Saw Operator	80	2.5
Dado Operator	10	.3
Dowel-Machine Operator	20	.6
Lathe Operator	130	4.1
Lay-Out Man	50	1.6
Machine Set-Up Man	40	1.2
Millman	140	4.4
Mortising-Machine Operator	10	.3
Ripsaw Operator	60	1.9
Shaper/Router Operator	70	2.2
Tenoner Operator	20	.6
Variety Saw Operator	60	1.9
Woodworking-Machine Operator	170	5.4
Fabricating and Assembling	700	22.3
Assembler Wood Products	390	12.4
Cabinetmaker	240	7.6
Glueman	10	.3
Gluing-Machine Operator	10	.3
Nailing-Machine Operator	40	1.2
Power-Screwdriver Operator	10	.3

TABLE 12

OCCUPATIONS OF PRODUCTION WORKERS

Lumber And Wood Products-SIC-24
Massachusetts
April-June 1971
(Continued)

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Finishing Occupations	100	3.1
Painter Spray	50	1.6
Rubber	10	.3
Sander	40	1.2
Veneer and Plywood Occupations	20	.6
Hydraulic-Press Operator	10	.3
Veneer Grader	10	.3
Wood Preserving Occupations	20	.6
Treating Engineer	20	.6
Material Handling Workers	260	8.3
Carrier Driver	*	*
Loader Car and Truck	10	.3
Log Handling Equipment Operator	10	.3
Off-Bearer	10	.3
Industrial Truck Operator	70	2.2
Deliverymen and Routemen	20	.6
Truck Driver	110	3.5
Order Filler	30	1.0
All Other Production (Plant) Workers	770	24.6
All Other Skilled Craftsmen	170	5.4
All Other Operatives/Semi-Skilled	310	9.9
All Other Laborers/Unskilled Workers	290	9.2

See footnotes on page 11

TABLE 13

OCCUPATIONS OF PRODUCTION WORKERS

Furniture And Fixtures-SIC-25
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	7,600	100.0
Foreman Nonworking	220	2.8
Inspector	90	1.1
Production Packager Hand/Machine	120	1.5
Wood Machining Occupations	940	12.3
Band-Scroll Saw Operator	100	1.3
Boring-Machine Operator	120	1.5
Corner-Brace-Block Machine Operator	10	.1
Cut-Off-Saw Operator	70	.9
Dado Operator	10	.1
Dowel-Machine Operator	10	.1
Lathe Operator	60	.7
Lay-Out Man	20	.2
Machine-Set-Up Man	20	.2
Millman	150	1.9
Mortising-Machine Operator	10	.1
Rip-and-Groove-Machine Operator	*	*
Ripsaw Operator	70	.9
Shaper Hand	40	.5
Shaper and/or Router Operator	40	.5
Tenoner Operator	30	.3
Variety Saw Operator	40	.5
Woodworking-Machine Operator	140	1.8
Metal Working Occupations	270	3.5
Brake Operator Sheet Metal	40	.5
Drill-Press/Boring-Machine Operator	10	.1
Grinding/Abrading Machine Operator	*	*
Lathe/Turning Machine Operator	*	*
Lay-Out Man	10	.1
Machine-Tool-Set-Up Man	20	.2
Machinist Production	*	*
Milling/Planing Machine Operator	*	*
Patternmaker	*	*
Punch-Press Operator	80	1.0
Shear Operator	20	.2
Sheet Metal Worker Production	60	.8
Tool and Die Maker	20	.2
All Others	10	.1
Fabricating And Assembling	1,130	14.8
Assembler Metal Products	270	3.5
Assembler Wood Products	420	5.5
Cabinetmaker	190	2.5
Glueman	30	.3

See footnotes on page 11

TABLE 13

OCCUPATIONS OF PRODUCTION WORKERS

Furniture And Fixtures-SIC-25
Massachusetts
April-June 1971
(Continued)

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Gluing-Machine Operator	40	.5
Hot-Plate-Plywood-Press Operator	*	*
Hydraulic-Press Operator	10	.1
Nailing-Machine Operator	10	.1
Plastic-Top Installer	10	.1
Power-Screwdriver Operator	20	.2
Riveting-Machine Operator	100	1.3
Welders and Flame-Cutters Production	30	.3
Finishing Occupations	690	9.0
Decorator	30	.3
Filers Grinders Buffers Cleaner	10	.1
Painter Production	200	2.6
Rubber	100	1.3
Sander	350	4.6
Upholstering/Mattress Making Occupation	1,830	24.0
Cushion Maker	200	2.6
Cutter	240	3.1
Sewing-Machine Operator Automatic/Special Equipment	260	3.4
Sewing-Machine Operator Regular Equipment	510	6.7
Sorter Upholstery Parts	90	1.1
Springer	120	1.5
Spring-Machine Operator	120	1.5
Stapler	120	1.5
Upholstery Trimmer	170	2.2
Material Handling Workers	350	4.6
Industrial Truck Operator	50	.6
Deliverymen and Routemen	30	.3
Truck Driver	170	2.2
Order Filler	100	1.3
All Other Production (Plant) Workers	1,960	25.7
All Other Skilled Craftsmen	350	4.6
All Other Operatives/Semi-Skilled	640	8.4
All Other Laborers/Unskilled Workers	970	12.7

See footnotes on page 11

TABLE 14

OCCUPATIONS OF PRODUCTION WORKERS

Pulp, Paper And Building Paper Mills
(SIC-261, 262, 263, 266)
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	6,560	100.0
Foreman Nonworking	320	4.8
Production Packager Hand/Machine	280	4.2
Woodroom Occupations	*	*
Pulp Mill Occupations	120	1.8
Brown-Stock Washer	20	.3
Digester Operator and/or Cook	*	*
Digester-Operator Helper	10	.1
Recovery Operator	*	*
Wet-Machine Tender	80	1.2
All Other	10	.1
Stock Preparation Occupations	720	10.9
Beater Engineer	240	3.6
Beaterman	290	4.4
Pulper	180	2.7
Pulp-Refiner Operator	10	.1
Machine Crew Occupations	1,570	23.9
Back Tender	350	5.3
Board-Machine Set-Up Man	*	*
Cylinder-Machine Tender	60	.9
Fourdrinier-Machine Tender	300	4.5
Pulp and/or Paper Tester	260	3.9
Winder Man Paper Machine	600	9.1
Off-Machine Coat Cut Press Wrapper	1,150	17.5
Air-Drier-Machine Tender	90	1.3
Coater Operator Insulation Board	10	.1
Coater Operator Off-Machine	50	.7
Coating Mixerman	30	.4
Cutter and/or Trimmer Operator	260	3.9
Orier Operator	60	.9
Pressman and/or Plate Printer	10	.1
Pressman Hardboard	10	.1
Rewinder Operator	210	3.2
Roll Finisher	260	3.9
Supercalendar Operator	160	2.4
Material Handling Workers	430	6.5
Cranemen Oerrickmen Hoistmen	40	.6
Industrial Truck Operator	220	3.3
Oeliverymen and Routemen	10	.1
Truck Oriver	80	1.2
Order Filler	80	1.2
All Other Production (Plant) Workers	1,970	30.0
All Other Skilled Craftsmen	280	4.2
All Other Operatives/Semi-Skilled	720	10.9
All Other Laborers/Unskilled Workers	970	14.7

See footnotes on page 11

TABLE 15

OCCUPATIONS OF PRODUCTION WORKERS

Miscellaneous Paper Products (SIC-264, 265)
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	15,760	100.0
Foreman Nonworking	710	4.5
Inspector	240	1.5
Production Packer Hand/Machine	910	5.7
General Paper Products Occupation	3,440	21.8
Assembler Hand	810	5.1
Book-Jacket-Cover-Machine Operator	*	*
Coating-Machine Operator	260	1.6
Combiner Operator	150	.9
Corner Cutter	80	.5
Creeping-Machine Operator	10	.0
Cutter and/or Trimmer Operator	170	1.0
Die Cutter	280	1.7
Die Maker	100	.6
Die Mounter	70	.4
Drill-Punch Operator	*	*
Folding-Machine Feeder	40	.2
Folding-Machine Operator	50	.3
Knotting-Machine Operator Tag Machine Operator	80	.5
Layboy Tender	50	.3
Machine Set-Up Man Paper Goods	500	3.1
Oiling-Machine Operator	30	.1
Paper-Reel Operator/Rewinder Operator	100	.6
Power-Press Tender	10	.0
Process-Machine Operator Gummed Tape	10	.0
Ribbon-Hanking/Ruf-Spooling Operator	10	.0
Scrapper	170	1.0
Slitting-Machine Operator	270	1.7
Spiral Binder/Stripping Machine Operator	10	.0
Stapling-Machine Operator	100	.6
Strap-Machine Operator	40	.2
Wallpaper Recoating-Machine Operator	*	*
Wallpaper Reeler/Rolling Machine Operator	10	.0
Weaver	20	.1
All Others	10	.0
Box And Tube Making Occupations	1,740	11.0
Automatic-Machine Attendant	30	.1
Box Maker Paperboard	80	.5
Carton-Forming-Machine Operator	270	1.7
Convolute-Tube/Spiral-Tube Winder	60	.3
Corrugator-Knife Operator	90	.5
Corrugator Operator	130	.8
Cover Stripper	60	.3
Cut-Off-Machine Operator	20	.1
Cutting-and-Creasing Pressman	260	1.6

See footnotes on page 11

TABLE 15

OCCUPATIONS OF PRODUCTION WORKERS

Miscellaneous Paper Products (SIC-264, 265)
Massachusetts
April-June 1971
(Continued)

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Ending-Machine Operator	30	.1
Four-Corner-Stayer-Machine Operator	80	.5
Paper-Cup-Machine Operator	10	.0
Punch-Press Operator Metal	*	*
Scorer	100	.6
Slitter-Creaser-Slotter Operator	100	.6
Slitter-Scorer-Cut-Off Operator	40	.2
Slotter Operator	40	.2
Taping-Machine Operator	120	.7
Waxing-Machine Operator	60	.3
Wrapping-Machine Operator	160	1.0
Bag Making Occupations	380	2.4
Bag Machine Operator	130	.8
Bag Sewer	80	.5
Bottoming/Paper-Bag-Press Operator	130	.8
Bulk-Sealer/String-Top Sealers	10	.0
Tube-Machine Operator	30	.1
Envelope Making Occupations	770	4.8
Envelope Folder Hand	30	.1
Envelope-Machine Operator	530	3.3
Machine Operator General	200	1.2
Panel/Patch/Sealing Machine Operator	10	.0
Printing Embossing Lining Occupations	1,430	9.0
Compositor and/or Typesetter	80	.5
Embosser Operator	100	.6
Flexo-Folder-Gluer Operator	80	.5
Pressman and/or Plate Printer	760	4.8
Printer-Slotter Feeder	180	1.1
Printer-Slotter Operator	220	1.4
Ruling-Machine Operator	*	*
Screen Cutter	*	*
Screen Printer	10	.0
Material Handling Workers	1,110	7.0
Cranemen Derrickmen Hoistmen	10	.0
Industrial Truck Operator	480	3.0
Deliverymen and Routemen	30	.1
Truck Driver	360	2.2
Order Filler	230	1.4
All Other Production (Plant) Workers	5,030	31.9
All Other Skilled Craftsmen	550	3.5
All Other Operatives/Semi-Skilled	2,430	15.4
All Other Laborers/Unskilled Workers	2,050	13.0

See footnotes on page 11

TABLE 16

OCCUPATIONS OF PRODUCTION WORKERS

Plastics Materials & Synthetics (SIC-282)
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	3,700	100.0
Foreman Nonworking	240	6.4
Inspector	140	3.7
Production Packager Hand/Machine	250	6.7
Mixing & Blending Occupations	410	11.0
Catalyst Concentration Operator	20	.5
Grinder	50	1.3
Solutions Operator	20	.5
All Other Mixers	320	8.6
Heat Treating & Drying	20	.5
Drier Operator	20	.5
Coating Calendering & Finishing	200	5.4
Coater Operator	40	1.0
Combining Machine Operator	20	.5
Mill Roll Rewinder	20	.5
Roll Operator	120	3.2
Casting & Molding Occupations	30	.8
Cake Press Operator	10	.2
Corrugator Operator	10	.2
Mold Filling Operator	10	.2
Extruding Occupations	280	7.5
Extruder Operator	250	6.7
Extruder Operator Helper	30	.8
Plastic Machining Occupations	90	2.4
Cutting Machine Tender	10	.2
Dicer Operator	20	.5
Planishing Press Operator	30	.8
Sheeter Operator	30	.8
Other Processing Occupations	510	13.7
Chemical Operator A	250	6.7
Chemical Operator B	190	5.1
Chemical Operator Helper	70	1.8
Material Handling Workers	220	5.9
Cranemen Derrickmen Hoistmen	10	.2
Industrial Truck Operator	120	3.2
Truck Driver	70	1.8
Order Filler	20	.5
All Other Production (Plant) Workers	1,310	35.4
All Other Skilled Craftsmen	340	9.1
All Other Operatives/Semi-Skilled	600	16.2
All Other Laborers/Unskilled Workers	370	10.0

TABLE 17

OCCUPATIONS OF PRODUCTION WORKERS

Paints, Agricultural Chemicals & Misc. Chemical Products
(SIC-285,286, 287, 289)
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	2,310	100.0
Foreman Nonworking	60	2.6
Inspector	30	1.3
Production Packager Hand/Machine	130	5.6
Mixing & Blending	450	19.4
Lacquer Man	120	5.1
Tinter	100	4.3
Sample Color Maker	20	.8
Pulverizing & Sifting Operator	*	*
Mill Operator	120	5.1
All Other Mixers	90	3.9
Filtering Straining Separating	290	12.5
Centrifuge/Centrifuge-Separator Operator	70	3.0
Extractor/Bone-Cooking Operator	100	4.3
Filter-Press/Dehydrating-Press Operator	110	4.7
Still Operator Batch/Continuous	10	.4
Heat Treating & Drying Occupations	150	6.4
Varnish Maker	10	.4
Drier Operator	70	3.0
Evaporator Operator	30	1.3
Kettle Operator Adhesive	40	1.7
Other Processing Occupations	120	5.2
Chemical Operator A	10	.4
Chemical Operator B	50	2.1
Chemical Operator Helper	50	2.1
Glue Maker	10	.4
Pumpman	*	*
Material Handling Workers	250	10.8
Cranemen Derrickmen Hoistmen	60	2.6
Industrial Truck Operator	30	1.3
Deliverymen & Routemen	*	*
Truck Driver	80	3.4
Order Filler	80	3.4
All Other Production (Plant) Workers	830	35.9
All Other Skilled Craftsmen	200	8.6
All Other Operatives/Semi-Skilled	160	6.9
All Other Laborers/Unskilled Workers	470	20.3

See footnotes on page 11

TABLE 18
OCCUPATIONS OF PRODUCTION WORKERS

Soap, Cleaners & Toilet Goods (SIC-284)
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	2,080	100.0
Foreman Nonworking	70	3.3
Inspector	140	6.7
Production Packager Hand/Machine	540	25.9
Mixing & Blending Occupations	240	11.5
Compounder Fragrances Flavoring	60	2.8
Mill Operator	30	1.4
All Other Mixers	150	7.2
Filtering Straining Separating	10	.4
Filter Press Operator	10	.4
Heat Treating & Drying Occupations	20	.9
Kettle Worker	20	.9
Other Processing Occupations	20	.9
Chemical Operator B	10	.4
Pumpman	10	.4
Material Handling Workers	350	16.8
Industrial Truck Operator	110	5.2
Deliverymen & Routemen	10	.4
Truck Driver	30	1.4
Order Filler	200	9.6
All Other Production (Plant) Workers	690	33.1
All Other Skilled Craftsmen	110	5.2
All Other Operatives/Semi-Skilled	280	13.4
All Other Laborers/Unskilled Workers	300	14.4

TABLE 19

OCCUPATIONS OF PRODUCTION WORKERS

Tires, Tubes, Miscellaneous Rubber Products
(SIC-301, 302, 303, 304, 305, 306)
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	10,602	100.0
Foreman Nonworking	590	5.5
Inspector	580	5.4
Production Packager Hand/Machine	230	2.1
Rubber Preparation Occupations	830	7.8
Rubber Compounder	350	3.3
Millman	360	3.4
Banbury Operator	100	.9
Orier	20	.1
Calendering & Band Building	700	6.6
Bias Machine Operator	90	.8
Calender Operator	410	3.8
Calender Operator Helper	170	1.6
Splicer	30	.2
Tire & Tube Building	630	5.9
Tuber Machine Operator	80	.7
Tube Splicer	70	.6
Air Bag Builder	20	.1
Tire Builder	440	4.1
Bead Forming Machine Operator	20	.1
Rubber Goods Fabrication	600	5.6
Roll Builder	50	.4
Skiver	*	*
Dipping-Machine Operator	10	.0
Rubber-Goods Assembler	480	4.5
Injection-Molding-Machine Operator	40	.3
Vulcanizer Rubber Footwear	20	.1
Rubber Curing Occupations	1,370	12.9
Tire-Bagging-Machine Tender	150	1.4
Tire Layer & Extractor	30	.2
Cureman	170	1.6
Pressman	990	9.3
Lead-Press Operator	*	*
Lead-Stripping-Machine Operator	*	*
Stripper	30	.2
Reclaimed Rubber	120	1.1
Refinerman	10	.1
Grinder	10	.0
Press Operator	10	.0
Orier Operator	90	.8
Finishing Occupations	1,252	11.8
Tire Repairer	50	.4
Stitcher	40	.3

See footnotes on page 11

TABLE 19

OCCUPATIONS OF PRODUCTION WORKERS

Tires, Tubes, Miscellaneous Rubber Products
(SIC-301, 302, 303, 304, 305, 306)
Massachusetts
April-June 1971

(Continued)

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Rubber-Goods Cutter-Finisher	332	3.1
Rubber Grinder	190	1.7
Trimmer	500	4.7
Pressman/Plate Tinter	140	1.3
Material Handling Workers	890	8.3
Cranemen Derrickmen Hoistmen	20	.1
Industrial Truck Operator	180	1.7
Deliverymen & Routemen	220	2.0
Truck Driver	50	.4
Order Filler	420	3.9
All Other Production (Plant) Workers	2,810	26.5
All Other Skilled Craftsmen	660	6.2
All Other Operatives/Semi-Skilled	1,230	11.6
All Other Laborers/Unskilled Workers	920	8.6

TABLE 20

OCCUPATIONS OF PRODUCTION WORKERS

Miscellaneous Plastic Products (SIC-307)
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	11,690	100.0
Foreman Nonworking	380	3.2
Inspector	280	2.4
Production Packager Hand/Machine	920	7.8
Plastic Stock Preparation Occupations	4,950	42.3
Compounder	320	2.7
Grinder	60	.5
Pilling-Machine Operator	20	.1
Sawyer	20	.1
Scrap-Salvage Man	40	.3
Slitting-Machine Operator	100	.8
Stock-Preparation Man	140	1.2
Bagger	10	.0
Blow-Molding-Machine Operator	130	1.1
Calender Operator	80	.6
Compression-Molding-Machine Operator	290	2.4
Extruder Operator	580	4.9
Injection-Molding-Machine Operator	2,500	21.3
Laminator Preforms	110	.9
Pressman	180	1.5
Set-Up-Man	280	2.4
Vacuum Plastic-Forming-Machine	70	.6
Other Molding-Machine Operators	20	.1
Fabricating Finishing Tooling Occupations	1,850	15.8
Assembler	560	4.7
Fabricator Plastics	160	1.3
Finisher Hand	300	2.5
Finisher Machine	160	1.3
Punch-Press Operator	40	.3
Trimmer	100	.8
Tumbler Operator	30	.2
Repairman	10	.0
Sampler	10	.0
Form Maker	20	.1
Patternmaker Plastics	20	.1
Tool-And-Die Maker	150	1.2
Painter Production	110	.9
Sewing-Machine Operator	150	1.2
Compositor and/or Typesetter	10	.0
Pressman and/or Plate Printer	20	.1
Material Handling Workers	530	4.5
Industrial Truck Operator	190	1.6
Deliverymen & Routemen	10	.0
Truck Driver	100	.8
Order Filler	230	1.9
All Other Production (Plant) Workers	2,780	23.7
All Other Skilled Craftsmen	530	4.5
All Other Operatives/Semi-Skilled	1,690	14.4
All Other Laborers/Unskilled Workers	560	4.7

TABLE 21

OCCUPATIONS OF PRODUCTION WORKERS

Leather Products, Except Footwear
(SIC-311, 312, 315, 316, 317, 319)
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	5,750	100.0
Foreman Nonworking	170	2.9
Inspector	70	1.2
Sorter	170	2.9
Production Packager Hand/Machine	60	1.0
Tanning & Beam House	1,190	20.7
Beamer Hand	20	.3
Beamer Machine	90	1.5
Limer	30	.5
Liquor Man	40	.6
Measuring-Machine Operator	110	1.9
Splitting-Machine Feeder	90	1.5
Staker Machine	70	1.2
Tacker Toggler & Paster	420	7.3
Tanning-Drum Operator/Colorer	150	2.6
Wringer-Machine Operator	170	2.9
Cutting Occupations	400	6.9
Clicking-Machine Operator	200	3.4
Cutter Hand	60	1.0
Trimmer Beam	140	2.4
Fabricating & Assembling	1,310	22.7
Case Maker	530	9.2
Glue-Spreading-Machine Operator	60	1.0
Leather Belt Maker	300	5.2
Leather Worker	30	.5
Luggage Maker	10	.1
Molder Fiberglass Luggage	*	*
Patternmaker	10	.1
Presser Machine	20	.3
Sewing Machine Operator Automatic	70	1.2
Sewing Machinw Operator Regular	240	4.1
Skiver	40	.7
Finishing	680	11.8
Buffer Hides or Skins	180	3.1
Embosser	170	2.9
Leather Stamper Hand	10	.1
Roller-Machine Operator	20	.3
Seasoner Machine	160	2.7
Seasoning Mixer	40	.7
Sprayer Hand/Machine	70	1.2
Stainer	30	.5
Material Handling Workers	80	1.3
Cranemen Derrickmen Hoistmen	*	*
Industrial Truck Operator	50	.8
Deliverymen & Routemen	*	*

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TABLE 21

OCCUPATIONS OF PRODUCTION WORKERS

Leather Products, Except Footwear
(SIC-311, 312, 315, 316, 317, 319)
Massachusetts
April-June 1971

(Continued)

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Truck Driver	10	.1
Order Filler	20	.3
All Other Production (Plant) Workers	1,620	28.1
All Other Skilled Craftsmen	290	5.0
All Other Operatives/Semi-Skilled	870	15.1
All Other Laborers/Unskilled Workers	460	8.0

TABLE 22

OCCUPATIONS OF PRODUCTION WORKERS

Footwear (SIC-313, 314)
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	20,340	100.0
Foreman Nonworking	470	2.3
Inspector	330	1.6
Sorter	260	1.2
Production Packager Hand/Machine	160	.7
Cutting Occupations	1,850	9.1
Clicking Machine Operator	1,210	5.9
Cutter Hand	110	.5
Cut-Out-Machine Operator	270	1.3
Trimmer Hand or Machine	260	1.2
Fabricating Fitting Assembling Occupations	7,580	37.2
Floor Boy/Girl	1,140	5.6
Sewer Hand	80	.3
Paster Backer Fitter Upper Hand	950	4.6
Patternmaker	60	.3
Skiver Machine	450	2.2
Stitcher Special Machine	470	2.3
Stitcher Standard Machine	3,940	19.3
Stitcher Utility	490	2.4
Lasting Occupations	1,460	7.1
Assembler Puller-Over Hand/Machine	230	1.1
Bed Laster	190	.9
Folder Machine	140	.6
Heel-Seat Laster Machine	160	.7
Laster Hand	80	.3
Lasting-Machine Operator Hand Method	30	.1
Puller-Over	140	.6
Side Laster	290	1.4
Stitchdown-Thread Laster	40	.2
Toe Laster	160	.7
Bottoming & Making Occupations	1,350	6.6
Bottom Filler	140	.6
Cementer Machine Joiner	520	2.5
Channeler	50	.2
Heel Attacher	170	.8
Heel Breaster Leather	20	.1
Heel Builder	30	.1
Heel-Seat Fitter Hand	20	.1
Heel-Seat Fitter Machine	20	.1
Injection-Molding-Machine Operator	50	.2
Joint Cutter Machine	10	.0
Rough Rounder Machine	100	.4
Shank-Piece Tacker	130	.6
Sole Leveler Machine	80	.3
Thermalasting-Machine Operator	10	.0

TABLE 22

OCCUPATIONS OF PRODUCTION WORKERS

Footwear (SIC-313, 314)
Massachusetts
April-June 1971
(Continued)

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Vulcanizer	*	*
Finishing Occupations	1,850	9.0
Buffer	280	1.3
Burnisher	100	.4
Cobbler	120	.5
Embosser/Marking-Machine Operator	280	1.3
Flamer	90	.4
Inker Hand or Machine	150	.7
Repairer	480	2.3
Seam-Rubbing-Machine Operator	60	.2
Treer	290	1.4
Material Handling Workers	370	1.8
Cranemen Derrickmen Hoistmen	*	*
Industrial Truck Operator	30	.1
Deliverymen & Routemen	10	.0
Truck Driver	40	.2
Order Filler	290	1.4
All Other Production (Plant) Workers	4,660	22.9
All Other Skilled Craftsmen	1,260	6.2
All Other Operatives/Semi-Skilled	2,110	10.3
All Other Laborers/Unskilled Workers	1,290	6.3

See footnotes on page 11

TABLE 23

OCCUPATIONS OF PRODUCTION WORKERS

Nonferrous Rolling Mills & Miscellaneous Primary Metal Products
(SIC-335, 339)
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	6,450	100.0
Foreman Nonworking	320	4.9
Inspector	390	6.0
Production Packager Hand/Machine	70	1.0
Sheet Bar Rolling Extruding	1,400	21.7
Braider Operator	180	2.7
Die Polisher Wire and/or Tubes	20	.3
Draw-Bench Operator/Tube Drawer	20	.3
Extruding-Machine Operator	360	5.5
Insulating-Machine Operator	10	.1
Rolling-Mill Operator	70	1.0
Rolling-Mill Operator Helper	100	1.5
Slitting-Machine Operator	30	.4
Stranding-Machine Operator	310	4.8
Stripping-Machine Operator	30	.4
Wire-Coating Operator Metal	80	1.2
Wire Drawer	190	2.9
Forging Metalworking Machine Trades	600	9.3
Blacksmith	10	.1
Blacksmith Helper	*	*
Die Setter	*	*
Die Sinker	100	1.5
Drop-Hammer Operator	280	4.3
Forging-Press Operator	60	.9
Forging/Straightening-Roll Operator	*	*
Hammersmith Open Die	10	.1
Header-Machine Operator	*	*
Leverman	10	.1
Manipulating Operator	*	*
Set-Up Man Powdered Metal Parts	10	.1
Sintering-Press Operator	40	.6
Stretcher-Leveler Operator	20	.3
Trimming-Press Operator	50	.7
All Others	10	.1
Other Production Occupations	1,300	20.1
Briquetting-Machine Operator	10	.1
Coiler	110	1.7
Filers Grinders Buffers Cleaners	100	1.5
Furnace Charger	10	.1
Furnace Operator and/or Heater	140	2.1
Heat Treater Annealer/Temperer	160	2.4
Pickler Continuous Pickling Line	50	.7
Plater	10	.1
Sampleman and/or Test Preparer	*	*
Scalper Operator	20	.3
Shear Operator	70	1.0

See footnotes on page 11

TABLE 23

OCCUPATIONS OF PRODUCTION WORKERS

Nonferrous Rolling Mills & Miscellaneous Primary Metal Products
(SIC-335, 339)
Massachusetts
April-June 1971

(Continued)

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Sheet-Metal Worker Production	*	*
Tool-and-Die Maker	30	.4
Welders Flame-Cutters Production	30	.4
Drill-Press/Boring-Machine Operator	20	.3
Grinding/Abrading-Machine Operator	100	1.5
Lathe/Turning-Machine Operator	30	.4
Lay-Out Man	10	.1
Machine-Tool Operator Combination	160	2.4
Machine-Tool Operator Numerical Continuous	*	*
Machine-Tool Set-Up Man	20	.3
Machinist Production	160	2.4
Milling/Planing-Machine Operator	50	.7
All Others	10	.1
Material Handling Workers	340	5.2
Cranemen Derrickmen Hoistmen	60	.9
Industrial-Truck Operator	190	2.9
Truck Driver	30	.4
Order Filler	60	.9
All Other Production (Plant) Workers	2,030	31.4
All Other Skilled Craftsmen	100	1.5
All Other Operatives/Semi-Skilled	970	15.0
All Other Laborers/Unskilled Workers	960	14.8

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TABLE 24

OCCUPATIONS OF PRODUCTION WORKERS

Fabricated Metal Products - SIC-34
Massachusetts
April-June 1971

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	24,430	100.0
Foreman Nonworking	890	3.6
Inspector	1,120	4.5
Tester	150	.6
Production Packager Hand/Machine	1,130	4.6
Foundry Occupations	640	2.6
Coremaker Hand Bench/Floor	50	.2
Coremaker Machine	30	.1
Molder Bench and/or Floor	170	.7
Molder Machine	70	.2
Pattern Maker Metal	40	.1
Pattern Maker Wood	20	.0
Die-Casting-Machine Operator	*	*
Pourer Metal	40	.1
Heat Treater Annealer/Temperer	220	.9
Forging Occupations	460	1.8
Blacksmith	70	.2
Hammersmith	10	.0
Die Setter	50	.2
Die Sinker	40	.1
Drop-Hammer Operator	120	.4
Forging/Straightening-Roll Operator	20	.0
Forging Press Operator	60	.2
Heater Metal	50	.2
Upsetter	40	.1
Metal Machining Occupations	790	3.2
Machine Tool Set-Up Man	570	2.3
Machine Tool Operator Numerical-Control	220	.9
Machine Tool Operator	4,430	18.1
Drill-Press/Boring-Machine Operator	540	2.2
Grinding/Abrading Machine Operator	560	2.2
Lathe/Turning Machine Operator	940	3.8
Milling/Planing Machine Operator	220	.9
Machine Tool Operator Combination	820	3.3
Machinist Production	790	3.2
Tool And Die Maker	560	2.2
Other Fabricating Occupations	6,320	25.8
Assembler	1,960	8.0
Punch-Press Operator	1,300	5.3
Brake Operator Sheet Metal	190	.7
Sawyer	80	.3
Shear Operator	250	1.0
Plastic Molding Machine Operator	100	.4
Woodworking Machine Operator	40	.1
Sewing-Machine Operator/Automatic/Special Equipment	*	*
Sewing-Machine Operator Regular Equipment	40	.1

See footnotes on page 11

TABLE 24

OCCUPATIONS OF PRODUCTION WORKERS

Fabricated Metal Products - SIC-34
Massachusetts
April-June 1971
(Continued)

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Lay-Out Man	330	1.3
Instrument Maker	20	.0
Boilermaker	40	.1
Sheet Metal Worker Production	490	2.0
Riveter Hand or Machine	180	.7
Welders and Flame Cutters Production	1,300	5.3
Finishing Occupations	2,500	10.2
Painter Production	490	2.0
Plater	750	3.0
Plater Helper	300	1.2
Filer/Grinder/Buffer/Cleaner	830	3.4
Lens Grinder	*	*
Etcher and/or Engraver	40	1
Compositor and/or Typesetter	20	.0
Pressman and/or Plate Printer	70	.2
Material Handling Workers	1,060	4.3
Cranemen/Derrickmen/Hoistmen	120	.4
Industrial Truck Operator	210	.8
Deliverymen and Routemen	10	.0
Truck Driver	390	1.6
Order Filler	330	1.3
All Other Production (Plant) Workers	4,940	20.2
All Other Skilled Craftsmen	1,190	4.8
All Other Operatives/Semi-Skilled	2,200	9.0
All Other Laborers/Unskilled Workers	1,550	6.3

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TABLE 25

OCCUPATIONS OF PRODUCTION WORKERS

Machinery, Except Electrical-SIC-35
Massachusetts
April-June 1971

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	34,640	100.0
Foreman Nonworking	1,860	5.3
Inspector	1,600	4.6
Tester	370	1.0
Production Packager Hand/Machine	290	.8
Foundry Occupations	860	2.4
Coremaker Hand Bench/Floor	100	.2
Coremaker Machine	20	.0
Molder Bench and/or Floor	130	.3
Molder Machine	80	.2
Pattern Maker Metal	10	.0
Pattern Maker Wood	230	.6
Die-Casting-Machine Operator	10	.0
Pourer Metal	20	.0
Heat Treater Annealer/Temperer	260	.7
Forging Occupations	150	.4
Blacksmith	20	.0
Hammersmith	*	*
Die Setter	*	*
Die Sinker	10	.0
Drop-Hammer Operator	10	.0
Forging/Straightening-Roll Operator	*	*
Forging Press Operator	30	.0
Heater Metal	20	.0
Upsetter	50	.1
All Others	10	.0
Metal Machining Occupations	1,000	2.8
Machine Tool Set-Up Man	490	1.4
Machine Tool Operator Numerical-Control	510	1.4
Machine Tool Operator	13,260	38.2
Drill-Press/Boring-Machine Operator	1,860	5.3
Grinding/Abrading Machine Operator	2,190	6.3
Lathe/Turning Machine Operator	2,200	6.3
Milling/Planing Machine Operator	1,730	5.0
Machine Tool Operator Combination	1,690	4.8
Machinist Production	2,030	5.8
Tool and Die Maker	1,560	4.5
Other Fabricating Occupations	8,070	23.3
Assembler	5,120	14.7
Punch-Press Operator	370	1.0
Brake Operator Sheet Metal	130	.3
Sawyer	120	.3
Shear Operator	100	.2
Plastic Molding Machine Operator	20	.0
Woodworking Machine Operator	130	.3

See footnotes on page 11

TABLE 25

OCCUPATIONS OF PRODUCTION WORKERS

Machinery, Except Electrical-SIC-35
Massachusetts
April-June 1971
(Continued)

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Sewing-Machine Operator Regular Equipment	*	*
Lay-Out Man	180	.5
Instrument Maker	10	.0
Boilermaker	*	*
Sheet Metal Worker Production	430	1.2
Shipfitter	40	.1
Riveter Hand or Machine	20	.0
Welders and Flame Cutters Production	1,390	4.0
All Others	10	.0
Finishing Occupations	1,350	3.9
Painter Production	350	1.0
Plater	210	.6
Plater Helper	30	.0
Filer/Grinder/Buffer/Cleaner	590	1.7
Lens Grinder	10	.0
Etcher and/or Engraver	120	.3
Compositor and/or Typesetter	10	.0
Pressman and/or Plate Printer	30	.0
Material Handling Workers	1,150	3.3
Cranemen/Derrickmen/Hoistmen	200	.5
Industrial Truck Operator	250	.7
Deliverymen and Routemen	30	.0
Truck Driver	360	1.0
Order Filler	310	.8
All Other Production (Plant) Workers	4,680	13.5
All Other Skilled Craftsmen	1,700	4.9
All Other Operatives/Semi-Skilled	1,780	5.1
All Other Laborers/Unskilled Workers	1,200	3.4

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TABLE 26

OCCUPATIONS OF PRODUCTION WORKERS

Electrical Machinery, Equipment, And Supplies-SIC-36
Massachusetts
April-June 1971

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	48,490	100.0
Foreman Nonworking	1,940	4.0
Inspector	2,220	4.5
Tester	1,810	3.7
Production Packager Hand/Machine	590	1.2
Foundry Occupations	160	.3
Coremaker Hand Bench/Floor	*	*
Coremaker Machine	*	*
Molder Bench and/or Floor	40	.0
Molder Machine	20	.0
Pattern Maker Metal	10	.0
Pattern Maker Wood	*	*
Die-Casting-Machine Operator	40	.0
Pourer Metal	30	.0
Heat Treater Annealer/Temperer	20	.0
Forging Occupations	220	.4
Blacksmith	*	*
Hammersmith	*	*
Die Setter	40	.0
Die Sinker	*	*
Drop-Hammer Operator	*	*
Forging/Straightening-Roll Operator	80	.1
Forging Press Operator	20	.0
Heater Metal	70	.1
Upsetter	10	.0
Metal Machining Occupations	470	.9
Machine Tool Set-Up Man	330	.6
Machine Tool Operator Numerical-Control	140	.2
Machine Tool Operator	3,880	8.0
Drill-Press/Boring-Machine Operator	580	1.2
Grinding/Abrading Machine Operator	140	.2
Lathe/Turning Machine Operator	580	1.2
Milling/Planing Machine Operator	430	.8
Machine Tool Operator Combination	500	1.0
Machinist Production	720	1.4
Tool and Die Maker	930	1.9
Other Fabricating Occupations	22,060	45.4
Assembler	18,800	38.7
Punch-Press Operator	1,070	2.2
Brake Operator Sheet Metal	100	.2
Sawyer	70	.1
Shear Operator	160	.3
Plastic Molding Machine Operator	240	.4
Woodworking Machine Operator	40	.0
Sewing-Machine Operator/Automatic/Special Equipment	*	*
Sewing-Machine Operator/Regular Equipment	20	.0

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TABLE 26

OCCUPATIONS OF PRODUCTION WORKERS

Electrical Machinery, Equipment, And Supplies-SIC-36
Massachusetts
April-June 1971
(Continued)

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Lay-Out Man	40	.0
Instrument Maker	40	.0
Boilermaker	*	*
Sheet Metal Worker Production	160	.3
Shipfitter	*	*
Shipwright	*	*
Riveter Hand or Machine	120	.2
Welders and Flamecutters Production	1,200	2.4
Finishing Occupations	1,710	3.5
Painter Production	450	.9
Plater	410	.8
Plater Helper	110	.2
Filer/Grinder/Buffer/Cleaner	280	.5
Lens Grinder	100	.2
Etcher and/or Engraver	340	.7
Compositor and/or Typesetter	*	*
Pressman and/or Plate Printer	20	.0
Material Handling Workers	820	1.6
Cranemen Derrickmen Hoistmen	110	.2
Industrial Truck Operator	340	.7
Deliverymen and Routemen	20	.0
Truck Driver	180	.3
Order Filler	170	.3
All Other Production (Plant)	12,610	26.0
All Other Skilled Craftsmen	1,580	3.2
All Other Operatives/Semi-Skilled	8,480	17.4
All Other Laborers/Unskilled Workers	2,550	5.2

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TABLE 27

OCCUPATIONS OF PRODUCTION WORKERS

Transportation Equipment-SIC-37
Massachusetts
April-June 1971

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	13,560	100.0
Foreman Nonworking	770	5.6
Inspector	750	5.5
Tester	180	1.3
Production Packager Hand/Machine	50	.3
Foundry Occupations	490	3.6
Coremaker Hand Bench/Floor	*	*
Molder Bench and/or Floor	10	.0
Molder Machine	380	2.8
Patternmaker Wood	10	.0
Heat Treater Annealer/Temperer	70	.5
Forging Occupations	*	*
Blacksmith	10	.0
Heater Metal	10	.0
Metal Machining Occupations	390	2.8
Machine Tool Set-Up Man	310	2.2
Machine Tool Operator Numerical-Control	80	.5
Machine Tool Operator	2,210	16.3
Drill-Press/Boring-Machine Operator	360	2.6
Grinding/Abrading Machine Operator	330	2.4
Lathe/Turning Machine Operator	500	3.6
Milling/Planing Machine Operator	180	1.3
Machine Tool Operator Combination	90	.6
Machinist Production	560	4.1
Tool and Die Maker	190	1.4
Other Fabricating Occupations	5,320	39.2
Assembler	1,950	14.3
Punch-Press Operator	150	1.1
Brake Operator Sheet Metal	10	.0
Shear Operator	*	*
Plastic Molding Machine Operator	*	*
Woodworking Machine Operator	10	.0
Lay-Out Man	70	.5
Sheet Metal Worker Production	700	5.1
Shipfitter	710	5.2
Shipwright	30	.2
Riveter Hand or Machine	*	*
Welders and Flame Cutters Production	1,680	12.3
All Others	10	.0
Finishing Occupations	950	7.0
Painter Production	480	3.5
Plater	10	.0
Plater Helper	10	.0

See footnotes on page 11

TABLE 27

OCCUPATIONS OF PRODUCTION WORKERS

Transportation Equipment-SIC-37
Massachusetts
April-June 1971
(Continued)

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Filer/Grinder/Buffer/Cleaner	440	3.2
Etcher and/or Engraver	10	.0
Material Handling Workers	330	2.4
Cranemen Derrickmen Hoistmen	110	.8
Industrial Truck Operator	90	.6
Deliverymen and Routemen	20	.1
Truck Driver	90	.6
Order Filler	20	.1
All Other Production (Plant) Workers	2,120	15.6
All Other Skilled Craftsmen	470	3.4
All Other Operatives/Semi-Skilled	1,050	7.7
All Other Laborers/Unskilled Workers	600	4.4

TABLE 28

OCCUPATIONS OF PRODUCTION WORKERS

Instruments And Related Products-SIC-38
Massachusetts
April-June 1971

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	13,310	100.0
Foreman Nonworking	830	6.2
Inspector	1,040	7.8
Tester	330	2.4
Production Packager Hand/Machine	270	2.0
Foundry Occupations	100	.7
Coremaker Hand Bench/Floor	10	.0
Coremaker Machine	*	*
Molder Bench and/or Floor	10	.0
Molder Machine	30	.2
Patternmaker Metal	10	.0
Patternmaker Wood	*	*
Die-Casting-Machine Operator	*	*
Pourer Metal	10	.0
Heat Treater Annealer/Temperer	20	.1
All Others	10	.0
Forging Occupations	20	.1
Blacksmith	*	*
Hammersmith	*	*
Die Setter	*	*
Die Sinker	*	*
Drop-Hammer Operator	10	.0
Forging/Straightening-Roll Operator	*	*
Forging Press Operator	*	*
Heater Metal	*	*
Upsetter	*	*
All Others	10	.0
Metal Machining Occupations	210	1.5
Machine Tool Set-Up Man	180	1.3
Machine Tool Operator Numerical-Control	30	.2
Machine Tool Operator	1,840	13.8
Drill-Press/Boring-Machine Operator	150	1.1
Grinding/Abrading Machine Operator	60	.4
Lathe/Turning Machine Operator	320	2.4
Milling/Planing Machine Operator	50	.3
Machine Tool Operator Combination	200	1.5
Machinist Production	770	5.7
Tool and Die Maker	290	2.1
Other Fabricating Occupations	4,900	36.8
Assembler	3,880	29.1
Punch-Press Operator	140	1.0
Brake Operator Sheet Metal	*	*
Sawyer	20	.1
Shear Operator	30	.2

See footnotes on page 11

TABLE 28

OCCUPATIONS OF PRODUCTION WORKERS

Instruments And Related Products-SIC-38
Massachusetts
April-June 1971
(Continued)

PRODUCTION OCCUPATIONS	EMPLOYMENT	
	Number	Percent
Plastic Molding Machine Operator	280	2.10
Woodworking Machine Operator	10	.08
Sewing-Machine Operator/Automatic/Special Equipment	60	.45
Sewing-Machine operator Regular Equipment	180	1.35
Lay-Out Man	30	.22
Instrument Maker	30	.23
Boilermaker	*	*
Sheet Metal Worker Production	50	.38
Shipfitter	*	*
Shipwright	*	*
Riveter Hand or Machine	40	.30
Welders and Flame Cutters Production	150	1.13
Finishing Occupations	620	4.66
Painter Production	130	.98
Plater	50	.37
Plater Helper	40	.30
Filer/Grinder/Buffer/Cleaner	90	.68
Lens Grinder	210	1.58
Etcher and/or Engraver	20	.15
Compositor and/or Typesetter	30	.22
Pressman and/or Plate Printer	50	.38
Material Handling Workers	300	2.25
Cranemen Derrickmen Hoistmen	30	.22
Industrial Truck Operator	30	.23
Deliverymen and Routemen	50	.37
Truck Driver	90	.68
Order Filler	100	.75
All Other Production (Plant) Workers	2,850	21.41
All Other Skilled Craftsmen	580	4.36
All Other Operatives/Semi-Skilled	1,800	13.52
All Other Laborers/Unskilled Workers	470	3.53

See footnotes on page 11

TABLE 29

OCCUPATIONS OF PRODUCTION WORKERS

Jewelry, Silverware & Plated Ware (SIC-391)
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	4,890	100.0
Foreman Nonworking	170	3.4
Inspector	230	4.7
Production Packager Hand/Machine	190	3.8
Other Fabricating & Assembling	1,650	33.7
Bench Hand	320	6.5
Chain Maker Hand	20	.4
Chaser	10	.2
Drill-Press/Boring-Machine Operator	50	1.0
Grinding/Abrading-Machine Operator	170	3.4
Jewel-Bearing Lathe Operator	40	.8
Jewel-Bearing Maker	20	.4
Jeweler/Silversmith	50	1.0
Machine-Tool Set-Up Man	80	1.6
Profile-Saw Operator	10	.2
Punch-Press Operator	250	5.1
Roller	30	.6
Silverware Assembler	70	1.4
Spinner	70	1.4
Stonesetter	30	.6
Tool-and-Die Maker	250	5.1
Trophy Assembler	*	*
Welders Flamecutters Production	180	3.6
Casting Heating & Molding	120	2.4
Caster	60	1.2
Heat Treater Annealer/Temperer	30	.6
Metal Mold Maker	10	.2
Rubber Mold Maker	10	.2
Wax Molder	10	.2
Finishing Occupations	890	18.2
Decorator	180	3.6
Engraver	40	.8
Filers Grinders Buffers Cleaner	510	10.4
Platers	110	2.2
Plater Helper	50	1.0
Material Handling Workers	190	3.8
Cranemen Derrickmen Hoistmen	10	.2
Industrial Truck Operator	10	.2
Deliverymen & Routemen	20	.4
Truck Driver	30	.6
Order Filler	120	2.4
All Other Production (Plant) Workers	1,450	29.6
All Other Skilled Craftsmen	370	7.5
All Other Operatives/Semi-Skilled	850	17.3
All Other Laborers/Unskilled Workers	230	4.7

TABLE 30

OCCUPATIONS OF PRODUCTION WORKERS

Miscellaneous Manufacturing Industries
(SIC-393, 394, 395, 396, 399)
Massachusetts
April-June 1971

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Production (Plant) Occupations	12,280	100.0
Foreman Nonworking	350	2.8
Inspector	390	3.1
Production Packager Hand/Machine	980	7.9
General Woodworking Occupations	450	3.6
Boring-Machine Operator	30	.2
Cabinetmaker	90	.7
Carving-Machine Operator	20	.1
Cut-Off-Saw Operator	20	.1
Glueman	20	.1
Lathe Operator	30	.2
Machine-Set-Up Men	40	.3
Ripsaw Operator	30	.2
Sander	70	.5
Woodworking-Machine Operator	100	.8
General Metal Working Occupations	1,050	8.5
Centrifugal-Casting-Machine Operator	10	.0
Die-Casting-Machine Operator	20	.1
Drill-Press/Boring-Machine Operator	20	.1
Grinding/Abrading-Machine Operator	120	.9
Lathe/Turning-Machine Operator	70	.5
Machine-Tool Operator Combination	70	.5
Machine-Tool-Set-Up Man	100	.8
Machinist Production	100	.8
Milling/Planing-Machine Operator	50	.4
Punch-Press Operator	140	1.1
Riveting-Machine Operator	20	.1
Sawyer	*	*
Sheet-Metal Worker Production	90	.7
Solderer Hand or Machine	110	.9
Tool and/or Die Maker	100	.8
Welders Flamecutters Production	30	.2
General Plastics Products Occupations	1,170	9.5
Bagger	20	.1
Caster	*	*
Extruder Operator	*	*
Fabricator Plastics	80	.6
Finisher Hand	190	1.5
Laminator Preforms	30	.2
Plastic-Molding-Machine Operator	650	5.2
Pressman	30	.2

See footnotes on page 11

TABLE 30

OCCUPATIONS OF PRODUCTION WORKERS

Miscellaneous Manufacturing Industries
(SIC-393,394, 395, 396, 399)
Massachusetts
April-June 1971

(Continued)

PRODUCTION OCCUPATION	EMPLOYMENT	
	Number	Percent
Set-Up Man Plastics	50	.4
Trimmer	20	.1
Tumbler Operator	10	.0
Vacuum Plastic-Forming-Machine Operator	90	.7
General Production Occupations	3,800	30.9
Assembler	2,700	21.9
Decorator	80	.6
Compositor and/or Typesetter	20	.1
Pressman and/or Plate Printer	70	.5
Screen Cutter	120	.9
Screen Printer	20	.1
Sewing-Machine Operator Automatic/Special Equipment	140	1.1
Sewing-Machine Operator Regular Equipment	190	1.5
Painter Production	260	2.1
Plater	70	.5
Plater Helper	40	.3
Vulcanizer Rubber Plate	90	.7
Material Handling Workers	290	2.3
Cranemen Derrickmen Hoistmen	30	.2
Industrial Truck Operator	120	.9
Deliverymen & Routemen	30	.2
Truck Driver	80	.6
Order Filler	30	.2
All Other Production (Plant) Workers	3,800	30.9
All Other Skilled Craftsmen	440	3.5
All Other Operatives/Semi-Skilled	1,870	15.2
All Other Laborers/Unskilled Workers	1,490	12.1

See footnotes on page 11

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AN OCCUPATIONAL PROFILE OF MANUFACTURING INDUSTRIES IN MASSACHUSETTS 1974

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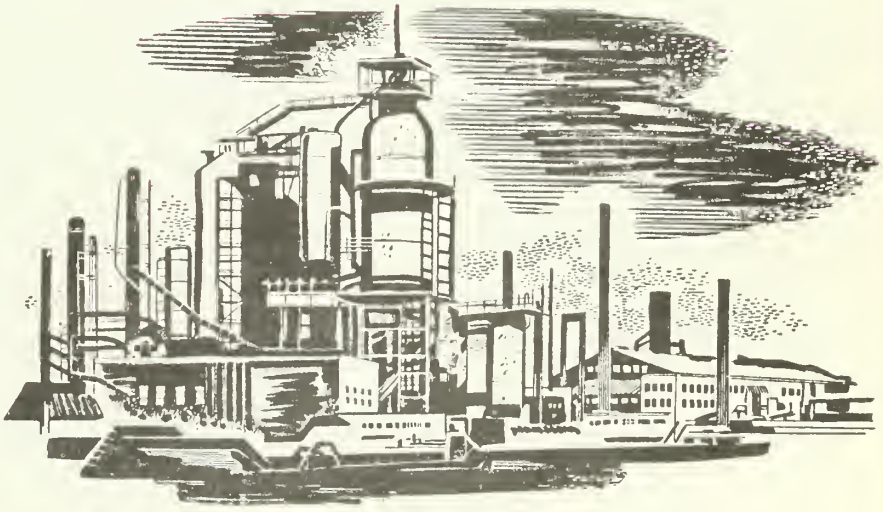

THE COMMONWEALTH OF MASSACHUSETTS
DIVISION OF EMPLOYMENT SECURITY
Charles F. Hurley Employment Security Building
Government Center, Boston, Massachusetts
JOHN D. CROSIER, DIRECTOR

AN OCCUPATIONAL PROFILE

OF

MANUFACTURING INDUSTRIES

IN

MASSACHUSETTS

1974

Report Number 4

Prepared by: John T. McNulty, Supervisor, Research & Statistics

and

The Staff of the Occupation/Industry Research Dept.

Under the Supervision of

Robert Ganong, Chief Supervisor

Elinor J. Rowe, Assistant Director

Research and Information Service

April 1, 1976

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INTRODUCTION

The Occupational Employment Statistics Program is part of a Federal-State cooperative program involving State Employment Security Agencies as well as the Employment and Training Administration and Bureau of Labor Statistics. It was designed to meet the needs of economists, employment specialists, educators and others for current data on employment by occupations and projected data on employment by occupation and industry. The information obtained from this program will be used as input in constructing industry-occupation matrices that will provide the data base for projecting future manpower requirements.

This survey was directed to collecting, by means of a mail questionnaire, occupational data in manufacturing industries. This is the second publication profiling employment in manufacturing. Caution is advised in comparing data from the previous publication because of refinements in the estimating system.

PUBLICATIONS TO DATE

Report 1	Manufacturing	1971
Report 2	Non-Manufacturing	1973
Report 3	Wholesale and Retail Trade	1973

This report is the fourth in a series of planned documents on current occupational profiles of Massachusetts industry. Currently, statistics are being collected for other sectors of the economy, including Federal, State and Local Government. It is planned to cover the entire economy on a three-year cycle. Information on health services, educational institutions and regulated industries are planned for the future.

Survey design, sample size and selection criteria, definitions and estimating procedures were prepared by the U. S. Department of Labor's Bureau of Labor Statistics. Technical assistance was given by Mr. Thomas Williams and Mr. Daryl Delano of the Boston Regional Office of the Bureau of Labor Statistics.

METHODOLOGY

The Sample

The second quarter 1973 report (ES-202) of employment and wages covered by the Massachusetts Employment Security Law was used as a sampling frame for the Occupational Employment Statistics survey of manufacturing establishments.

The sampling frame was stratified by three-digit SIC's (Standard Industrial Classification) and by nine employment size classes. Establishments with less than four employees were excluded from the sample, and all units with employment of one hundred or more were automatically included. All other establishments were subject to sample selection on a random basis, with the units in larger size classes having a porportionately higher chance of selection. Each unit was given a weight according to the porportion of firms selected in each size class. The sample included 4571 establishments with benchmark employment of 568,988.

The Survey and Response

After the initial mailing, two follow-ups were sent to nonrespondents. Telephone calls and personal visits were made to nonrespondents where the data was critical for calculating valid estimates. Of the 4571 establishments in the survey, replies were received from 3418, a response rate of 74.8 percent. After manual editing and mechanical (computer) screening, 3076 were useable, with total employment of 362,339, (63.7 percent of sample employment).

The Estimating Procedure

All useable questionnaires were stratified into seven size groups, by industry. Reported total employment and occupational employment on each questionnaire was multiplied by the weight assigned during sample selection. These industry data were then divided into the employment in the ES 202 report (stratified by corresponding cells) for the reference month of the survey. The result produced by this procedure is known as the benchmark factor. This factor was then applied to the occupational data, thus accounting for nonresponse. These occupational estimates were then summed across size classes in industry totals.

Sampling Error

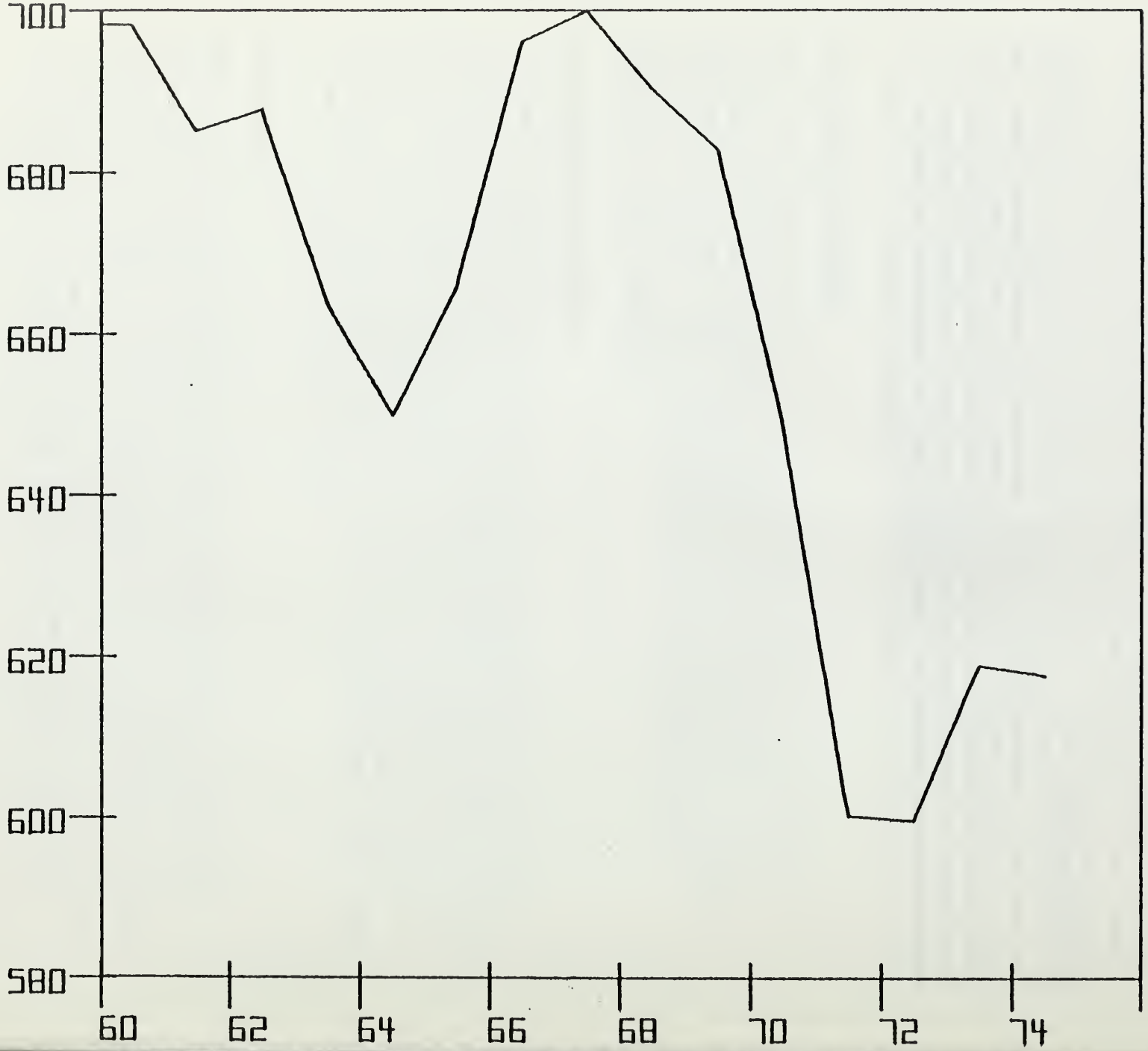
Sampling error is a arithmetic measure of the precision of an estimate. It is the difference between the estimate computed from the sample and the result that would have been obtained if the same methods were used to collect identical information from the universe. The relative errors listed in this report are the sampling errors of each occupation expressed as a percent of that occupational estimate. The relative errors shown are such that the chances are 2 out of 3 that the results of a comparable full scale data collection, using the same survey approach, would not differ by more than the percent shown; the chances are 19 out 20 that

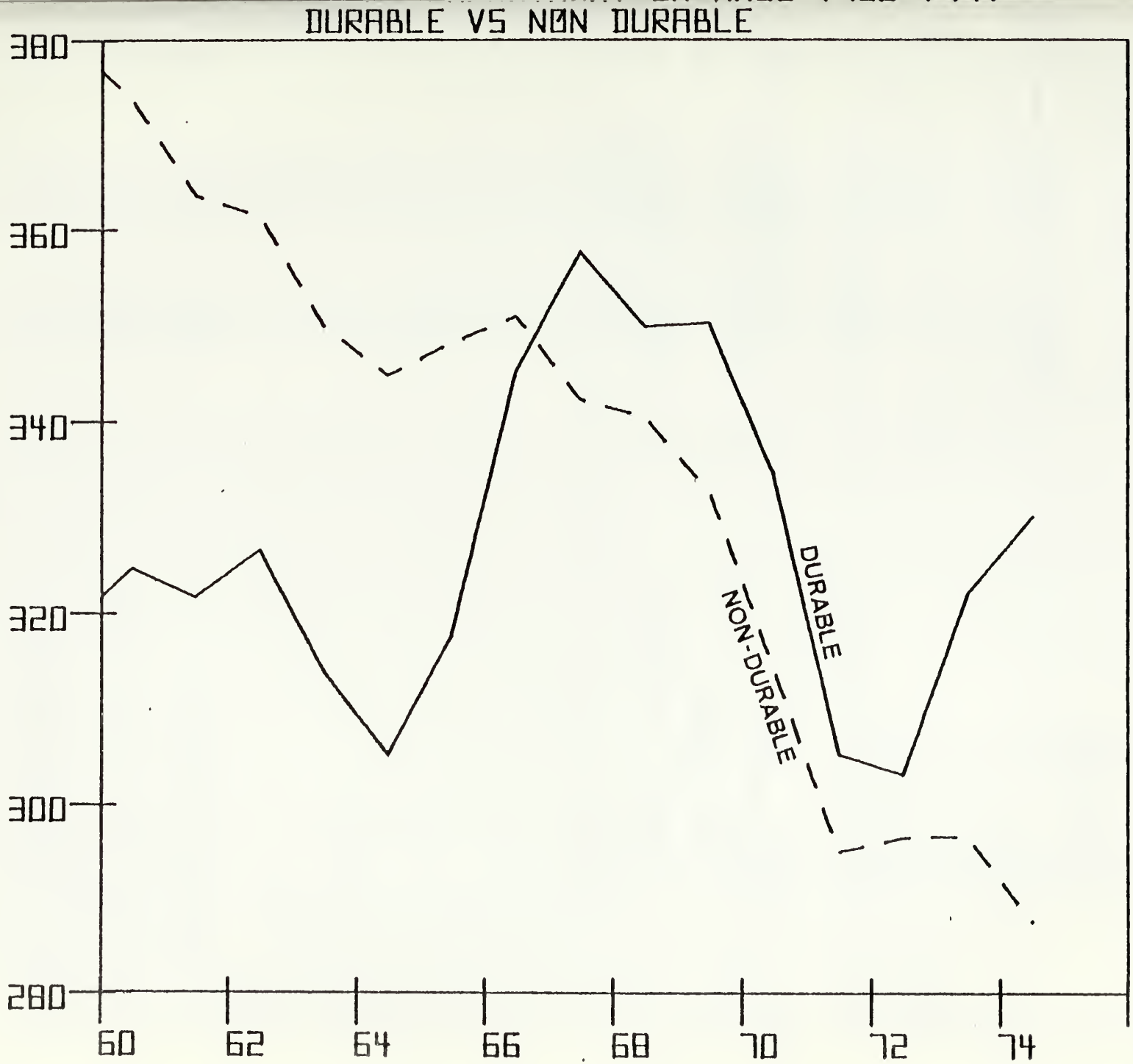
the results of a full scale data collection would not differ by more than twice the percent shown. For example, it is estimated in this report that their are 1200 Writers and/or Editors employed in SIC 27, or about 2.85 percent of the total workers in the industry. Thus the chances are about 68 out of 100 that the results of a comparable full scale data collection would differ by less than 96 (8 percent) from the 1200 estimated; similarly the estimated 2.85 percent of total employment would differ by less than 0.23 percent of total employment.

Nonsampling Error

The results of this survey are subject to biases and other nonsampling errors. Although careful editing and screening steps were taken, responding establishments may account for some errors in computations and processing, as well as placing workers in a wrong occupation. The nonrespondents are a source of nonsampling error for which measures were not available but are reflected in the estimating procedure.

MANUFACTURING EMPLOYMENT
IN MASS. 1960-1974




DURABLE VS NØN DURABLE
380
360
340
320
300
280
60
62
64
66
68
70
72
74
DURABLE
NON-DURABLE

OCCUPATIONS OF EMPLOYEES
MEAT PRODUCTS (SIC 201)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	160	4.36	12
Professional Occupations	80	2.18	N.A.
Chemist	10	0.27	44
Purchasing Agent and/or Buyer	30	0.82	18
Accountants & Auditors	20	0.55	36
Personnel & Labor Relations Specialist	10	0.27	35
All Other Professional Occupations	10	0.27	N.A.
Service Occupations	100	2.73	N.A.
Supervisor, Nonworking	10	0.27	37
Janitors & Porters	70	1.91	16
All Other Service Occupations	20	0.55	N.A.
Maintenance & Production Occupations	2,780	75.74	N.A.
Supervisor, Maintenance & Production	140	3.81	13
Mechanic Automotive	10	0.27	45
Mechanic Maintenance	30	0.82	29
All Other Mechanics & Repairers	10	0.27	48
Truck Driver	80	2.18	22
Cook/Cooker	10	0.27	26
Delivery & Returner	90	2.45	31
Mixer (Food)	50	1.36	33
Order Filler	110	3.00	15
Production Packager	460	12.53	17
Boner, Meat	150	4.09	19
Butcher, All Around	90	2.45	33
Casing Finisher	190	5.18	16
Cooler Room Worker	20	0.55	23
Meat Grinder	60	1.63	31
Pickler, Meat	60	1.63	18
Pumper	20	0.55	18
Smoker	50	1.36	13
All Other Skilled Workers	120	3.27	N.A.
All Other Semiskilled Workers	550	14.99	N.A.
All Other Unskilled Workers	480	13.08	N.A.
Clerical Occupations	350	9.53	N.A.
Bookkeeping & Billing Machine Operator	10	0.27	41
Computer Operator	10	0.27	31
Keypunch Operator	20	0.55	35
All Other Office Machine Operators	10	0.27	40
Accounting Clerk	30	0.82	36

SIC 201 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Bookkeeper, Hand	20	0.55	32
Cashier	10	0.27	24
File Clerk	10	0.27	37
General Clerk	50	1.36	26
Payroll/Timekeeping Clerk	10	0.27	23
Personnel Clerk	10	0.27	49
Switchboard Operator/Receptionist	10	0.27	23
Typist	10	0.27	40
All Other Office Clerical Workers	10	0.27	32
Production Clerks	10	0.27	37
Shipping Packer	70	1.91	20
Shipping/Receiving Clerk	30	0.82	18
All Other Clerical Occupations	20	0.55	N.A.
Sales Occupations	200	5.45	N.A.
Sales Representative	190	5.18	24
All Other Sales Occupations	10	0.27	N.A.
TOTAL	3,670	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
DAIRY PRODUCTS (SIC 202)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	440	8.16	7
Professional Occupations	120	2.24	N.A.
Mechanical Engineer	10	0.19	13
Purchasing Agent and/or Buyer	10	0.19	11
Accountants & Auditors	50	0.93	10
Personnel & Labor Relations Specialist	10	0.19	10
All Other Professional Occupations	40	0.74	N.A.
Technical Occupations	30	0.56	N.A.
Computer Programmer	20	0.37	8
Science Technician	10	0.19	28
Service Occupations	260	4.82	N.A.
Janitors & Porters	20	0.37	14
Food Service Workers	200	3.71	43
All Other Service Occupations	40	0.74	N.A.
Maintenance & Production Occupations	3,240	60.11	N.A.
Supervisor, Maintenance & Production	90	1.67	6
Mechanic Automotive	150	2.78	8
Mechanic Maintenance	40	0.74	10
Truck Driver	140	2.60	16
Carpenter	30	0.56	14
Delivery Driver	970	18.00	8
Electrician	20	0.37	14
Industrial Truck Operator	40	0.74	18
Maintenance Repairer, General Utility	50	0.93	15
Order Filler	60	1.11	24
Production Packager	390	7.24	11
Firer, Stationary Boiler	10	0.19	31
Stationary Engineer	20	0.37	25
Blender Conveyer Operator	20	0.37	30
Dairy Processing Equipment	170	3.15	15
Flavor-Room Worker	90	1.67	22
Novelty Worker	30	0.56	36
Tester	60	1.11	14
All Other Skilled Workers	70	1.30	N.A.
All Other Semiskilled Operatives	240	4.45	N.A.
All Other Unskilled Workers	550	10.20	N.A.
Clerical Occupations	1,130	20.96	N.A.
Supervisor, Clerical	40	0.74	13
Bookkeeping & Billing Machine Operator	20	0.37	31
Computer Operator	20	0.37	13

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Keypunch Operator	40	0.74	16
Stenographer	10	0.19	45
Accounting Clerk	60	1.11	21
Bookkeeper, Hand	40	0.74	18
Cashier	10	0.19	29
General Clerk	280	5.19	7
Order Clerk	20	0.37	21
Payroll/Timekeeping Clerk	20	0.37	10
Personnel Clerk	20	0.37	12
Procurement Clerk	10	0.19	20
Secretary	80	1.48	10
Switchboard Operator	10	0.19	28
Switchboard Operator/Receptionist	10	0.19	18
Typist	10	0.19	47
All Other Office Clerical Workers	150	2.78	14
Production Clerk	20	0.37	18
Shipping Packer	20	0.37	33
Shipping/Receiving Clerk	160	2.97	14
Stock Clerk, Storeroom & Warehouse	50	0.93	31
All Other Clerical Occupations	30	0.56	N.A.
Sales Occupations	170	3.15	N.A.
Sales Representatives	130	2.41	9
Sales Clerk	40	0.74	39
TOTAL	5,390	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
CANNED, CURED, AND FROZEN FOODS (SIC 203)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers & Officers	450	10.92	10
Professional Occupations	180	4.37	N.A.
Industrial Engineer	10	0.24	20
Chemist	10	0.24	43
Systems Analyst EDP	20	0.49	12
Purchasing Agent and/or Buyer	30	0.73	14
Accountants & Auditors	40	0.97	19
All Other Professional Occupations	70	1.70	N.A.
Technical Occupations	70	1.70	N.A.
Computer Programmer	10	0.24	12
All Other Technical Occupations	60	1.46	N.A.
Service Occupations	100	2.43	N.A.
Janitors & Porters	60	1.46	18
All Other Service Occupations	40	0.97	N.A.
Maintenance & Production Occupations	2,770	67.22	N.A.
Supervisor, Maintenance & Production	70	1.70	16
Mechanic, Maintenance	50	1.21	43
Truck Driver	50	1.21	45
Cook/Cooker	170	4.13	26
Industrial Truck Operator	110	2.67	19
Inspector	20	0.49	17
Machinist	10	0.24	40
Maintenance Repairer	90	2.18	16
Production Packager	780	18.93	15
Firer, Stationary Boiler	10	0.24	45
Cutter, Food	120	2.91	22
All Other Semiskilled Workers	690	16.75	N.A.
All Other Unskilled Workers	600	14.56	N.A.
Clerical Occupations	490	11.90	N.A.
Supervisor, Clerical	10	0.24	47
Computer Operator	20	0.49	16
Keypunch Operator	20	0.49	15
Stenographer	20	0.49	14
Accounting Clerk	30	0.73	22
Bookkeeper, Hand	20	0.49	39
File Clerk	10	0.24	25
General Clerk	50	1.21	25
Order Clerk	50	1.21	13

SIC 203 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Payroll/Timekeeping Clerk	20	0.49	20
Personnel Clerk	10	0.24	18
Procurement Clerk	10	0.24	14
Secretary	90	2.18	20
Typist	20	0.49	28
All Other Office Clerical Workers	30	0.73	33
Shipping/Receiving Clerk	20	0.49	36
Stock Clerk Storeroom & Warehouse	10	0.24	45
All Other Clerical Occupations	50	1.21	N.A.
Sales Occupations	60	1.45	N.A.
Sales Representatives	50	1.21	34
All Other Sales Occupations	10	0.24	N.A.
TOTAL	4,120	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
BAKERY PRODUCTS (SIC 205)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	320	4.63	12
Professional Occupations	110	15.8	N.A.
Mechanical Engineer	10	0.14	33
Purchasing Agents &/or Buyer	20	0.29	39
Accountants & Auditors	30	0.43	25
All Other Professional Occupations	50	0.72	N.A.
Service Occupations	620	8.97	N.A.
Supervisor, Nonworking	20	0.29	33
Janitors & Porters	300	4.34	13
Food Service Workers	190	2.75	36
All Other Service Occupations	110	1.59	N.A.
Maintenance & Production Occupations	4,580	66.24	N.A.
Supervisor, Maintenance & Production	130	1.88	15
Mechanic Automotive	90	1.30	20
Mechanic Maintenance	110	1.59	15
Truck Driver	170	2.46	13
Delivery Driver	1,250	18.09	18
Electrician	20	0.29	18
Maintenance Repairer	110	1.59	28
Mixer (Food)	130	1.88	21
Oiler	10	0.14	31
Order Filler	190	2.75	24
Oven Tender	200	2.89	19
Pan Greaser, Machine	30	0.43	20
Production Packager	390	5.64	13
Baker	280	4.05	29
Baker Helper	240	3.47	21
Batter Scaler	30	0.43	40
Bench Hand	90	1.30	38
Cake Decorator	50	0.72	31
Decorator, Bakery Products	50	0.72	30
Depositing Machine Operator	20	0.29	21
Dividing Machine Operator	80	1.16	16
Doughnut Maker	90	1.30	48
Ingredient Scaler	100	1.45	27
Cutting Machine Operator	70	1.01	25
All Other Semiskilled Workers	140	2.03	N.A.
All Other Unskilled Workers	510	7.38	N.A.

SIC 205 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Clerical Occupations	630	9.08	N.A.
Supervisor, Clerical	20	0.29	16
Bookkeeping & Billing Machine Operator	20	0.29	24
Keypunch Operator	20	0.29	24
Accounting Clerk	30	0.43	20
Bookkeeper, Hand	50	0.72	14
Cashier	30	0.43	16
File Clerk	10	0.14	18
General Clerk	50	0.72	26
Order Clerk	30	0.43	21
Payroll/Timekeeper Clerk	40	0.58	27
Personnel Clerk	10	0.14	31
Secretary	20	0.29	25
Switchboard Operator/Receptionist	10	0.14	20
Typist	10	0.14	14
Shipping Packer	90	1.30	24
Shipping/Receiving Clerk	100	1.45	15
All Other Clerical Occupations	90	1.30	N.A.
Sales Occupations	650	9.40	N.A.
Sales Representatives	70	1.01	39
Sales Clerks	580	8.39	33
TOTAL	6,910	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
CONFECTIONERY & RELATED PRODUCTS (SIC 207)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	140	4.32	14
Professional Occupations	80	2.48	N.A.
Industrial Engineers	10	0.31	20
Purchasing Agents &/or Buyer	20	0.62	15
Accountants & Auditors	10	0.31	26
Personnel & Labor Relations Specialist	10	0.31	29
All Other Professional Occupations	30	0.93	N.A.
Technical Occupations	30	0.93	N.A.
Science Technician	10	0.31	32
All Other Technical Occupations	20	0.62	N.A.
Service Occupations	150	4.64	N.A.
Janitors & Porters	110	3.40	14
Food Service Workers	10	0.31	40
All Other Service Occupations	30	0.93	N.A.
Maintenance & Production Occupations	2,350	72.56	N.A.
Supervisor, Maintenance & Production	120	3.70	20
Mechanic Maintenance	20	0.62	35
All Other Mechanics	20	0.62	14
Truck Driver	20	0.62	17
Cook/Cooker	50	1.54	35
Electrician	10	0.31	30
Industrial Truck Operator	30	0.93	32
Inspector	10	0.31	19
Machinist	20	0.62	20
Maintenance Repairer	10	2.16	26
Oiler	10	0.31	47
Plumber/Pipefitter	10	0.31	29
Production Packager	640	19.75	20
Stationary Engineer	10	0.31	35
Candy Maker	80	2.47	36
Chocolate Temperer	10	0.31	35
Mogul Operator Confectionery	20	0.62	40
Spinner Confectionery	30	0.93	31
Enrobing Machine Operator	20	0.62	23
All Other Skilled Workers	110	3.40	N.A.
All Other Semiskilled Operatives	450	13.89	N.A.
All Other Unskilled Laborers	590	18.21	N.A.

SIC 207 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Clerical Occupations	350	10.83	N.A.
Bookkeeping & Billing Machine Operator	10	0.31	35
Computer Operator	10	0.31	18
Keypunch Operator	20	0.62	20
Accounting Clerk	20	0.62	21
File Clerk	10	0.31	35
General Clerk	40	1.23	29
Order Clerk	20	0.62	22
Payroll/Timekeeping Clerk	10	0.31	14
Procurement Clerk	10	0.31	28
Secretary	30	0.93	13
Switchboard Operator /Receptionist	10	0.31	24
Typist	10	0.31	16
Production Clerk	10	0.31	34
Shipping Packer	30	0.93	18
Shipping/Receiving Clerk	20	0.62	24
Stock Clerk, Storeroom & Warehouse	30	0.93	34
All Other Clerical Occupations	60	1.85	N.A.
Sales Occupations	140	4.33	N.A.
Sales Representatives	110	3.40	24
All Other Sales Occupations	30	0.93	N.A.
TOTAL	3,240	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
BEVERAGES (SIC 208)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	300	7.52	8
Professional Occupations	100	2.50	N.A.
Chemists	10	0.25	24
Purchasing Agents and/or Buyers	10	0.25	19
Accountants & Auditors	50	1.25	20
Personnel & Labor Relations Specialist	10	0.25	33
All Other Professional Occupations	20	0.50	N.A.
Technical Occupations	20	0.50	N.A.
Service Occupations	120	3.00	N.A.
Supervisor, Nonworking	40	1.00	30
Janitors & Porters	20	0.50	40
Guards	20	0.50	31
All Other Service Occupations	40	1.00	N.A.
Maintenance & Production Occupations	2,650	66.38	N.A.
Supervisor, Maintenance & Production	70	1.75	11
Mechanic Automotive	30	0.75	26
Mechanic Maintenance	40	1.00	30
Coin Machine Service	50	1.25	40
Truck Driver	60	1.50	33
Cook/Cooker	10	0.25	30
Delivery Driver	430	10.78	23
Electrician	20	0.50	38
Industrial Truck Operator	180	4.51	17
Maintenance Repairer	30	0.75	36
Mixer (Food)	70	1.75	28
Painter, Maintenance	10	0.25	41
Production Packager	550	13.78	28
Firer, Stationary Boiler	20	0.50	26
Stationary Engineer	20	0.50	31
Tester	20	0.50	46
Fermentation Operator	10	0.25	25
All Other Skilled Workers	70	1.75	N.A.
All Other Semiskilled Operatives	290	7.27	N.A.
All Other Laborers	670	16.79	N.A.
Clerical Occupations	560	14.00	N.A.
Supervisor Clerical	70	1.75	23
Bookkeeping & Billing Machine Operator	20	0.50	21

SIC 208 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Computer Operator	10	0.25	47
Keypunch Operator	20	0.50	35
Accounting Clerk	30	0.75	31
Bookkeeper Hand	20	0.50	25
Cashier	10	0.25	40
General Clerk	40	1.00	38
Order Clerk	40	1.00	36
Payroll/Timekeeping Clerk	20	0.50	17
Secretary	60	1.50	21
Typist	20	0.50	40
Switchboard Operator/Receptionist	10	0.25	14
Production Clerk	10	0.25	20
Shipping/Receiving Clerk	60	1.50	10
Stock Clerk Storeroom & Warehouse	50	1.25	40
All Other Office Clerical Occupations	40	1.00	N.A.
All Other Plant Clerical Occupations	30	0.75	N.A.
Sales Occupations	240	6.01	N.A.
Sales Representatives	230	5.76	30
Sales Clerks	10	0.25	N.A.
TOTAL	3,990	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
TEXTILE MILL PRODUCTS (SIC 22)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relativ Error Percen
Managers and Officers	1,610	5.28	7
Professional Occupations	590	1.93	N.A.
Mechanical Engineers	50	0.16	19
Industrial Engineers	100	0.33	16
All Other Engineers	40	0.13	24
Chemist	80	0.26	17
Systems Analyst - EDP	30	0.10	20
Purchasing Agent and/or Buyer	60	0.20	14
Accountants and Auditors	120	0.39	13
Designer	50	0.16	30
Personnel and Labor Relations Specialist.	30	0.10	13
All Other Professional Occupations	30	0.10	N.A.
Technical Occupations	200	0.66	N.A.
Computer Programmer	30	0.10	27
Engineering Technician	30	0.10	24
All Other Technical Occupations	140	0.46	N.A.
Service Occupations	580	1.90	N.A.
Supervisor, Nonworking Service	90	0.29	24
Guards	130	0.43	11
Janitors, Porters, Cleaners	330	1.08	9
All Other Service Workers	30	0.10	N.A.
Maintenance & Production Occupations	24,050	78.80	N.A.
Supervisor, Main. and Production	970	3.18	4
Maintenance Mechanic	290	0.95	15
Loom Fixer	400	1.31	16
All Other Mech. & Repairers	380	1.25	N.A.
Truck Driver	170	0.56	9
Carpenter	60	0.20	12
Electrician	90	0.29	9
Industrial Truck Operator	230	0.75	10
Inspector	790	2.59	11
Machinist	110	0.36	14
Main. Repairers, Gen. Utility	410	1.34	8
Helper Trades	180	0.59	18
Millwright	30	0.10	27
Oiler	50	0.16	17
Order Filler	170	0.56	14

SIC 22 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Plumber/Pipefitter	40	0.13	14
Production Packager	1,070	3.51	28
Sewing Machine Oper., Reg. Non Garment	840	2.75	18
Sewing Mach. Oper., Special Non Garment	110	0.36	44
Stationary Boiler Firer	120	0.39	13
Welders and Flame Cutters	20	0.07	26
Weaver	810	2.65	10
Beam-Dyer Operator	30	0.10	37
Beam-Warper Tenders, Automatic	100	0.33	23
Spooler Operator, Automatic	50	0.16	23
Bleach-Range Operator	80	0.26	25
Blending Machine Operator	50	0.16	35
Boarding Machine Operator	40	0.13	39
Bobbin Winder Machine Operators	150	0.49	35
Burler	40	0.13	35
Calender Operator, Cloth	150	0.49	26
Card Grinder	50	0.16	28
Card Tender-Comb Tender	710	2.33	16
Drawing Frame/Gill Box Tenders	50	0.16	43
Cloth Feeders & Back Tenders	330	1.08	16
Cloth-Finishing-Range, Chief Operator	30	0.10	36
Cloth-Shrinking-Machine Operator	30	0.10	28
Cloth Trimming Machine Operators	70	0.23	30
Cloth or Carpet Winders	80	0.26	18
Coating Machine Operator	490	1.61	23
Creeler	190	0.62	38
Cutter, Portable Machine	220	0.72	23
Cutter, Stationary Machine	110	0.36	28
Doffer	140	0.46	21
Dry-Cans Operator	70	0.23	31
Dye-Range Operator	80	0.26	31
Fuller Textile	20	0.07	39
Harness Builder	140	0.46	27
Knitting Machine Operator	400	1.31	25
Mender	230	0.75	22
Mercerizer Operator	50	0.16	44
Napper Tender	40	0.13	31
Loom Needle Operator	140	0.46	49
Picker Tender	250	0.82	20
Quilling Machine Operator	60	0.20	35
Skein Yarn Dryer	70	0.23	39
Singer, Cloth	30	0.10	26
Slasher Tender	50	0.16	28
Slubber Tender	20	0.07	32
Smash Hand	90	0.29	22
Speeder Tender	90	0.29	42
Spinner Frame	440	1.44	16

SIC 22 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Tenter Frame Operator	380	1.25	12
Tester	100	0.33	14
Twister Tender	330	1.08	17
Warp Tying Machine Operator	50	0.16	20
Winder Operator, Automatic	370	1.21	29
Washer, Synthetic Fibers	30	0.10	25
Yarn Winder	830	2.72	16
Folding Machine Operator	150	0.49	16
Blender/Mixer Chemical	340	1.11	12
All Other Skilled Workers	300	0.98	N.A.
All Other Semi-Skilled Workers	4,780	15.63	N.A.
All Other Unskilled Workers	3,590	11.76	N.A.
Clerical Occupations	3,170	10.39	N.A.
Supervisor Clerical	60	0.20	15
Bookkeeping & Billing Machine Oper.	40	0.13	17
Computer Operator	60	0.20	21
Keypunch Operator	90	0.29	19
Stenographer	40	0.13	25
Accounting Clerk	200	0.66	21
Bookkeeper, Hand	70	0.23	21
File Clerk	20	0.07	25
General Clerk	830	2.72	10
Order Clerk	110	0.36	15
Payroll/Timekeeping Clerk	130	0.43	11
Personnel Clerk	30	0.10	15
Procurement Clerk	40	0.13	17
Receptionist	10	0.03	22
Secretary	190	0.62	14
Switchboard Operator	20	0.07	19
Switchboard Operator/Receptionist	50	0.16	13
Typist	80	0.26	14
All Other Office Clerical Workers	90	0.29	N.A.
Production Clerk	150	0.49	13
Shipping Packer	260	0.85	13
Shipping & Receiving Clerk	360	1.18	7
Stock Clerk	120	0.39	22
All Other Plant Clerical Workers	120	0.39	N.A.
Sales Occupations	320	1.05	N.A.
Sales Representatives	270	0.88	18
Sales Clerk	50	0.16	31
TOTAL	30,520	100.0	N.A.

N.A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
BROADWOVEN FABRIC MILL, MANMADE FIBER (SIC 222)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	130	4.61	16
Professional Occupations	40	1.41	N.A.
Accountants & Auditors	10	0.35	22
All Other Professional Occupations	30	1.06	N.A.
Technical Occupations	10	0.35	N.A.
Service Occupations	50	1.77	N.A.
Janitors & Porters	20	0.71	19
All Other Service Occupations	30	1.06	N.A.
Maintenance & Production Occupations	2,380	84.39	N.A.
Supervisor, Maintenance & Production	80	2.84	21
Loom Fixer	260	9.22	29
Section Leader & Machine Setter	50	1.77	21
Truck Driver	10	0.35	35
Drawer-In-Hand	20	0.71	49
Electrician	20	0.71	15
Machinist	20	0.71	23
Production Packager	20	0.71	19
Weaver	310	10.99	19
Drawing Frame Tender	30	1.06	33
Harness Builder, Loom Changer	100	3.55	17
Slasher Tender	50	1.77	40
Smash Hand	70	2.48	21
Warp-Tying-Machine Tender	30	1.06	38
Winder Operator, Automatic	20	0.71	38
Yarn Winder	40	1.42	35
Cloth Grader	130	4.61	14
Mixer/Blender Chemical	20	0.71	25
All Other Skilled Workers	40	1.42	N.A.
All Other Semiskilled Operatives	750	26.60	N.A.
All Other Laborers	310	10.99	N.A.
Clerical Occupations	170	6.02	N.A.
Payroll/Timekeeping Clerk	10	0.35	22
Personnel Clerk	10	0.35	45
Production Clerk	10	0.35	40
Shipping/Receiving Clerk	20	0.71	28
All Other Office Clerical Workers	100	3.55	N.A.
All Other Plant Clerical Workers	20	0.71	N.A.

SIC 222 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Sales Occupations	40	1.41	N.A.
Sales Representatives	30	1.06	14
Sales Clerks	10	0.35	N.A.
TOTAL	2,820	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
BROADWOVEN FABRIC MILLS (SIC 223)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	60	2.31	7
Professional Occupations	30	1.15	N.A.
Designer	10	0.38	25
All Other Professional Occupations	20	0.77	N.A.
Service Occupations	70	2.69	N.A.
Janitors & Porters	40	1.54	20
Guards	30	1.15	20
Maintenance & Production Occupations	2,280	87.61	N.A.
Supervisor, Maintenance & Production	90	3.46	17
Mechanic Maintenance	40	1.54	24
Loom Fixer	70	2.69	17
Section Leader & Machine Setter	70	2.69	17
Truck Driver	10	0.38	26
Carpenter	10	0.38	25
Drawer-In-Hand	50	1.92	22
Inspector	50	1.92	19
Repairer, General Utility	20	0.77	39
Helper Trades	10	0.38	48
Production Packager	10	0.38	49
Firer, Stationary Boiler	10	0.38	26
Weavers	270	10.38	14
Battery Loader	30	1.15	34
Beam-Warper Tenders, Automatic	20	0.77	37
Blending Machine Operator	40	1.54	25
Bobbin Winders, Machine or Sewing Machine	30	1.15	46
Calender Operator, Cloth	30	1.15	23
Card Grinder	10	0.38	28
Card Tenders	100	3.85	25
Cloth Feeders &/or Back Tenders	30	1.15	25
Cloth Trimmers, Machine	20	0.77	22
Cloth or Carpet Winder	10	0.38	28
Creeler	30	1.15	30
Dresser Tender	40	1.54	18
Fuller Textile	20	0.77	28
Harness Builders, Loom Changers	40	1.54	35
Mender	160	6.15	17
Napper Tender	30	1.15	17
Picker Tender	30	1.15	34

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Quilling Machine Operator	20	0.77	30
Smash Hand	20	0.77	26
Spinner Frame	170	6.54	2
Tenter Frame Operator	20	0.77	23
Twister Tender	10	0.38	33
Winder Operator, Automatic	30	1.15	19
Folding Machine Operator	10	0.38	22
Mixer/Blender Chemical	10	0.38	25
All Other Skilled Workers	50	1.92	N.A.
All Other Semiskilled Operatives	300	11.54	N.A.
All Other Laborers	260	10.00	N.A.
Clerical Occupations	160	61.1	N.A.
Bookkeeping & Billing Machine Operator	10	0.38	28
Computer Operator	10	0.38	24
Accounting Clerk	10	0.38	29
General Clerk	20	0.77	24
Payroll/Timekeeping Clerk	10	0.38	24
Secretary	10	0.38	17
Switchboard Operator/Receptionist	10	0.38	27
Typist	10	0.38	43
Shipping Packer	20	0.77	42
Shipping/Receiving Clerk	10	0.38	24
All Other Office Clerical Workers	30	1.15	N.A.
All Other Plant Clerical Workers	10	0.38	N.A.
TOTAL	2,600	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding

OCCUPATIONS OF EMPLOYEES
NARROW FABRICS & OTHER SMALLWARES MILLS (SIC 224)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	60	4.69	20
Professional Occupations	30	2.34	N.A.
Purchasing Agents &/or Buyers	10	0.78	40
Designer	10	0.78	20
All Other Professional Occupations	10	0.78	N.A.
Service Occupations	20	1.56	N.A.
Janitors & Porters	20	1.56	27
Maintenance & Production Occupations	1,040	81.25	N.A.
Supervisor, Maintenance & Production	30	2.34	17
Loom Fixer	20	1.56	22
Section Leader & Machine Setter	10	0.78	16
Truck Driver	10	0.78	20
Drawer-In-Hand	10	0.78	28
Inspector	50	3.91	22
Machinist	10	0.78	19
Weaver	130	10.16	37
Beam-Warper Tenders	30	2.34	22
Braiding Machine Operator	180	14.06	12
Calender Operator, Cloth	10	0.78	25
Cloth or Carpet Winder	10	0.78	47
Dry-Cans Operator	10	0.78	20
Quilling Machine Operator	20	1.56	39
Yarn Winder	40	3.13	34
All Other Skilled Workers	40	3.13	N.A.
All Other Semiskilled Operatives	290	22.66	N.A.
All Other Laborers	140	10.94	N.A.
Clerical Occupations	110	8.58	N.A.
Bookkeeping & Billing Machine Operator	10	0.78	20
Accounting Clerk	10	0.78	13
Secretary	20	1.56	23
Typist	20	1.56	16
Shipping/Receiving Clerk	10	0.78	18
Stock Room Clerk	10	0.78	40
All Other Office Clerical Workers	20	1.56	N.A.
All Other Plant Clerical Workers	10	0.78	N.A.
Sales Occupations	20	1.56	N.A.
TOTAL	1,280	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
TEXTILE FINISHING, EXCEPT WOOL (SIC 226)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	280	4.30	14
Professional Occupations	60	0.90	N.A.
Industrial Engineer	10	0.15	40
Mechanical Engineer	10	0.15	29
Chemist	10	0.15	20
Purchasing Agent and/or Buyer	10	0.15	29
Accountants & Auditors	10	0.15	28
All Other Professional Occupations	10	0.15	N.A.
Technical Occupations	70	1.07	N.A.
Colorist	60	0.92	22
All Other Technical Occupations	10	0.15	35
Service Occupations	90	1.38	N.A.
Janitors and Porters	40	0.61	11
Guards	20	0.31	32
All Other Service Occupations	30	0.46	N.A.
Maintenance & Production Occupations	5,380	82.64	N.A.
Supervisor, Maintenance & Production	270	4.15	5
Mechanic Maintenance	60	0.92	25
Truck Driver	30	0.46	18
Carpenter	20	0.31	24
Electrician	30	0.46	19
Industrial Truck Operator	70	1.08	14
Inspector	230	3.53	20
Machinist	20	0.31	26
Maintenance Repairer	130	2.00	12
Oiler	10	0.15	29
Order Filler	60	0.92	19
Plumber/Pipefitter	10	0.15	27
Production Packager	500	7.68	36
Sewing Machine Operator, Regular Nongarment	220	3.38	30
Sewing Mach. Oper., Automatic & Special Equip., Nongarment	80	1.23	44
Firer, Stationary Boiler	30	0.46	21
Welder and Flamecutter	10	0.15	48
Ager Operator	90	1.38	23
Back Tender Cloth Printer	170	2.61	24
Bleach Range Operator &/or Knit-Goods Bleacher	70	1.08	20
Boil-Off Machine Operator Cloth	40	0.61	27

SIC 226 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Cloth Feeders and/or Back Tenders	150	2.30	21
Cloth Finishing- Range Operator	30	0.46	37
Cloth Printer	140	2.15	17
Cloth Shrinking Machine Operator	20	0.31	30
Cloth or Carpet Winder	30	0.46	26
Cutter Stationary Machine	60	0.92	47
Mercerizer Oper. &/or Mangle Tender	50	0.77	38
Napper Tender	20	0.31	42
Screen Printing Machine Operator	100	1.54	22
Singer, Cloth	20	0.31	21
Skein Yarn Dryer	100	1.54	48
Tenter Frame Operator	230	3.53	12
Tester	30	0.46	24
Yarn Winder	160	2.46	46
Folding Machine Operator	50	0.77	23
Mixer/Blender Chemical	150	2.30	17
All Other Semiskilled Operatives	1,050	16.13	N.A.
All Other Laborers	840	12.90	N.A.
Clerical Occupations	620	9.50	N.A.
Supervisor, Clerical	20	0.31	24
Bookkeeping & Billing Machine Operator	10	0.15	36
Accounting Clerk	10	0.15	20
Bookkeeper, Hand	20	0.31	18
General Clerk	180	2.77	12
Order Clerk	20	0.31	33
Payroll/Timekeeping Clerk	20	0.31	17
Personnel Clerk	10	0.15	29
Secretary	10	0.15	24
Switchboard Operator/Receptionist	10	0.15	14
Typist	10	0.15	22
Production Clerk	40	0.61	20
Shipping Packer	90	1.38	20
Shipping/Receiving Clerk	60	0.92	15
Stock Clerk Storeroom & Warehouse	10	0.15	26
All Other Clerical Workers	40	0.61	N.A.
All Other Plant Clerical Workers	60	0.92	N.A.
Sales Occupations	10	0.15	N.A.
TOTAL	6,510	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
YARN AND THREAD MILLS (SIC 228)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relativ Error Percen
Managers and Officers	70	3.04	12
Professional Occupations	40	1.73	N.A.
Industrial Engineers	10	0.43	17
Accountants & Auditors	10	0.43	18
All Other Professional Occupations	20	0.87	N.A.
Service Occupations	60	2.60	N.A.
Supervisor, Nonworking	30	1.30	29
Janitors & Porters	20	0.87	19
Guards	10	0.43	17
Maintenance & Production Occupations	1,800	78.19	N.A.
Supervisor, Maintenance & Production	50	2.17	18
Section Leader & Machine Setter	50	2.17	14
Electrician	10	0.43	20
Inspector	50	2.17	27
Machinist	10	0.43	24
Maintenance Repairer, General Utility	40	1.73	13
Helper Trades	50	2.17	31
Oiler	10	0.43	38
Production Packager	40	1.73	26
Stationary Boiler Firer	10	0.43	19
Blending Machine Operator	10	0.43	18
Card Tender, Comber Tender and/or Card Strippers	70	3.04	16
Picker Tender	20	0.87	12
Speeder Tender	40	1.74	32
Spinner Frame	140	6.09	20
Tester	10	0.43	20
Twister Tender	170	7.39	18
Winder Operator Automatic	210	9.13	14
Yarn Winder	300	13.04	11
All Other Skilled Workers	30	1.30	N.A.
All Other Semiskilled Operatives	400	17.39	N.A.
All Other Laborers	80	3.48	N.A.
Clerical Occupations	210	11.72	N.A.
Keypunch Operator	10	0.43	13
Bookkeeper, Hand	10	0.43	16
General Clerk	40	1.74	17
Order Clerk	20	0.87	14

SIC 228 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Payroll/Timekeeping Clerk	20	0.87	8
Secretary	20	0.87	16
Switchboard Operator/Receptionist	10	0.43	20
Typist	10	0.43	33
Production Clerk	20	0.87	15
Shipping Packer	40	1.74	11
Shipping/Receiving Clerk	20	0.87	19
Stock Clerk, Storeroom & Warehouse	30	1.30	16
All Other Office Clerical Workers	20	0.87	N.A.
Sales Occupations	60	2.60	N.A.
Sales Representatives	50	2.17	17
Sales Clerks	10	0.43	22
TOTAL	2,300	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISC. TEXTILE GOODS (SIC 229)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	480	7.15	5
Professional Occupations	250	3.74	N.A.
Industrial Engineers	40	0.60	14
Mechanical Engineers	20	0.30	16
All Other Engineers	40	0.60	23
Chemist	40	0.60	16
Systems Analyst EDP	10	0.15	18
Purchasing Agent and/or Buyer	20	0.30	19
Accountants & Auditors	60	0.89	13
Personnel & Labor Relations Specialist	10	0.15	17
All Other Professional Occupations	10	0.15	N.A.
Technical Occupations	90	1.35	N.A.
Computer Programmer	10	0.15	28
Engineering Technician	30	0.45	18
All Other Technical Occupations	50	0.75	N.A.
Service Occupations	130	1.94	N.A.
Janitors & Porters	80	1.19	13
Guards	30	0.45	21
All Other Service Occupations	20	0.30	N.A.
Maintenance & Production Occupations	4,800	71.59	N.A.
Supervisor, Maintenance & Production	230	3.43	13
Mechanic Maintenance	130	1.94	17
Truck Driver	70	1.04	17
Carpenter	10	0.15	22
Electrician	20	0.30	14
Industrial Truck Operator	90	1.34	14
Inspector	150	2.24	16
Machinist	30	0.45	21
Maintenance Repairer, General Utility	120	1.79	17
Helper Trades	10	0.15	40
Order Filler	40	0.60	17
Plumber/Pipefitter	10	0.15	17
Production Packager	100	1.49	37
Sewing Mach. Oper. Regular Non Garment	40	0.60	38
Stationary Boiler Firer	50	0.75	27
Blending Machine Operator	30	0.45	38
Card Tender, Comber Tender, &/or Card Strippers	380	5.67	17
Coating Machine Operator	350	5.22	45
Fuller Textile	40	0.60	32

SIC 229 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Loom Needle Operator	120	1.79	28
Picker Tender	150	2.24	27
Rope Laying Machine Operator	140	2.09	29
Scouring Train Operator	30	0.45	25
Tenter Frame Operator	60	0.89	21
Tester	30	0.45	24
Folding Machine Operator	30	0.45	44
Mixer Blender Chemical	120	1.79	21
All Other Skilled Workers	170	2.53	N.A.
All Other Operatives	830	12.37	N.A.
All Other Laborers	1,220	18.18	N.A.
Clerical Occupations	860	12.85	N.A.
Supervisor Clerical	20	0.30	28
Bookkeeping & Billing Machine Operator	10	0.15	37
Computer Operator	20	0.30	18
Keypunch Operator	20	0.30	20
Accounting Clerk	70	1.04	23
Bookkeeper Hand	20	0.30	26
General Clerk	210	3.13	12
Order Clerk	20	0.30	38
Payroll/Timekeeping Clerk	30	0.45	13
Procurement Clerk	20	0.30	25
Receptionist	10	0.15	40
Secretary	80	1.19	16
Switchboard Operator	10	0.15	28
Switchboard Operator/Receptionist	10	0.15	33
Typist	20	0.30	26
Production Clerk	50	0.75	14
Shipping Packer	30	0.45	31
Shipping/Receiving Clerk	140	2.09	11
Stock Clerk, Storeroom & Warehouse	10	0.15	42
All Other Office Clerical Workers	40	0.60	N.A.
All Other Plant Clerical Workers	20	0.30	N.A.
Sales Occupations	100	1.49	N.A.
Sales Representatives	90	1.34	28
All Other Sales Occupations	10	0.15	N.A.
TOTAL	6,710	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
APPAREL AND OTHER TEXTILE PRODUCTS (SIC 23)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,890	4.20	6
Professional Occupations	360	0.79	N.A.
Industrial Engineers	30	0.07	17
All Other Engineers	20	0.04	27
Systems Analyst EDP	20	0.04	23
Purchasing Agent &/or Buyer	70	0.16	17
Accountants & Auditors	100	0.22	13
Personnel & Labor Relations Specialist	20	0.04	22
Designer	90	0.20	19
All Other Professional Occupations	10	0.02	N.A.
Technical Occupations	60	0.13	N.A.
Computer Programmer	40	0.09	17
All Other Technical Occupations	20	0.04	34
Service Occupations	410	0.91	N.A.
Supervisor, Nonworking Service	70	0.16	29
Janitors & Porters	270	0.60	7
Guards	40	0.09	18
Food Service Workers	10	0.02	32
All Other Service Workers	20	0.04	27
Maintenance & Production Occupations	36,960	82.03	N.A.
Supervisor, Nonworking	910	2.02	7
Mechanic Maintenance	90	0.20	27
Sewing Machine Mechanic	180	0.40	7
Presser Hand	1,040	2.31	9
Presser Machine	880	1.95	10
Truck Driver	90	0.20	20
Carpenter	20	0.04	23
Electrician	10	0.02	35
Industrial Truck Operator	20	0.04	32
Inspector	830	1.84	12
Instructor, Apparel & Textile Machine	30	0.07	26
Machinist	50	0.11	24
Maintenance Workers, General Utility	140	0.31	9
Helper Trades	30	0.07	33
Order Filler	420	0.93	15
Production Packager	360	0.80	14
Sewing Machine Operator, Regular Equipment	18,420	40.90	4
Sewing Machine Operator, Automatic	3,060	6.79	12

SIC 23 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
All Around Tailor	40	0.09	39
Bundler	580	1.29	8
Cutter Portable Machine	640	1.42	10
Draper	60	0.13	19
Embraiderer, Hand	40	0.09	42
Fusing Machine Operator	130	0.29	22
Garment Repairer	140	0.31	14
Hand Sewer	470	1.04	12
Pattern Cutter	230	0.51	19
Pattern Maker	140	0.31	14
Pleating Machine Operator	50	0.11	36
Sample Maker	470	1.04	16
Shaper and Presser	380	0.84	20
Spot Cleaner	50	0.11	17
Spreader	380	0.84	11
Thread Trimmer	1,130	2.51	7
Work Distributor	490	1.09	10
Marker	130	0.29	11
Cutter, Hand	490	1.09	14
Turner	360	0.80	14
Folder, Hand	590	1.31	19
Folding Machine Operator	50	0.11	32
Sorbar Operator	160	0.36	15
All Other Skilled Workers	430	0.95	N.A.
All Other Semiskilled Operatives	1,050	2.33	N.A.
All Other Laborers	1,700	3.77	N.A.
Clerical Occupations	4,700	10.43	N.A.
Supervisor Clerical	130	0.29	40
Bookkeeping & Billing Machine Operator	80	0.18	14
Computer Operator	60	0.13	21
Keypunch Operator	170	0.38	19
Stenographer	20	0.04	35
Accounting Clerk	210	0.47	16
Bookkeeper, Hand	400	0.89	9
File Clerk	60	0.13	15
General Clerk	740	1.64	21
Order Clerk	130	0.29	16
Payroll/Timekeeping Clerk	270	0.60	5
Personnel Clerk	40	0.09	16
Procurement Clerk	60	0.13	36
Receptionist	20	0.04	22
Secretary	270	0.60	13
Switchboard Operator	10	0.02	30
Switchboard Operator/Receptionist	70	0.16	12
Typist	100	0.22	16
Production Clerk	230	0.51	27

SIC 23 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Shipping Packer	490	1.09	11
Shipping/Receiving Clerk	650	1.44	9
Stock Clerk, Storeroom & Warehouse	310	0.69	28
Shade Ticket Marker	90	0.20	26
All Other Office Machines	50	0.11	40
All Other Plant Clerical Workers	40	0.09	22
Sales Occupations	660	1.46	N.A.
Sales Representatives	550	1.22	18
Sales Clerks	110	0.24	27
TOTAL	45,040	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
WORK CLOTHING FOR MEN, YOUTH & BOYS (SIC 232)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	210	3.27	17
Professional Occupations	40	0.63	N.A.
Industrial Engineers	10	0.16	33
All Other Professional Occupations	30	0.47	N.A.
Service Occupations	100	1.56	N.A.
Supervisor, Nonworking	40	0.62	15
Janitors & Porters	50	0.78	12
All Other Service Workers	10	0.16	N.A.
Maintenance & Production Occupations	5,450	84.78	N.A.
Supervisor Maintenance Production	110	1.71	7
Sewing Machine Mechanic	20	0.31	15
Presser, Hand	230	3.58	12
Presser, Machine	140	2.18	17
Truck Driver	10	0.16	25
Inspector	100	1.56	31
Repairer, General Utilities	20	0.31	12
Order Filler	10	0.16	26
Production Packager	20	0.31	42
Sewing Machine Operator, Regular	3,300	51.32	4
Sewing Machine Operator, Automatic	370	5.75	23
Bundler	90	1.40	17
Cutter, Portable Machine	80	1.24	13
Garment Repairer	10	0.16	27
Hand Sewer	50	0.78	28
Pattern Cutter	90	1.40	13
Pattern Maker	10	0.16	29
Sample Maker	40	0.62	35
Shaper & Presser	40	0.62	18
Spot Cleaner	10	0.16	29
Spreader	40	0.62	15
Thread Trimmer	190	2.95	10
Work Distributor	70	1.09	15
Marker	20	0.31	16
Cutter, Hand	60	0.93	39
Turner	50	0.78	23
Folder, Hand	20	0.31	26
Folding Machine Operator	30	0.47	41
Sorbar Operator	50	0.78	17
All Other Skilled Workers	10	0.16	N.A.
All Other Semiskilled Operatives	90	1.40	N.A.
All Other Laborers	70	1.09	N.A.

SIC 232 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Clerical Occupations	500	7.81	N.A.
Bookkeeping & Billing Machine Operator	10	0.16	39
Keypunch Operator	10	0.16	41
Bookkeeper, Hand	60	0.93	16
File Clerk	10	0.16	41
General Clerk	30	0.47	20
Payroll/Timekeeping Clerk	50	0.78	10
Secretary	30	0.47	24
Switchboard Operator/Receptionist	10	0.16	20
Typist	10	0.16	38
Clerical Supervisor	10	0.16	41
Production Clerk	20	0.31	30
Shipping Packer	70	1.09	22
Shipping/Receiving Clerk	90	1.40	13
Stock Clerk Storeroom & Warehouse	30	0.47	32
Shade Ticket Maker	20	0.31	28
All Other Clerical Occupations	40	0.62	N.A.
Sales Occupations	130	2.03	N.A.
Sales Representatives	120	1.87	19
Sales Clerks	10	0.16	35
TOTAL	6,430	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
OUTERWEAR FOR WOMEN, MISSES, AND JUNIORS (SIC 233)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	640	3.49	8
Professional Occupations	130	0.69	N.A.
Systems Analyst EDP	10	0.05	18
Purchasing Agent and/or Buyer	20	0.11	21
Accountants & Auditors	30	0.16	15
Personnel & Labor Relations Specialist	10	0.05	27
Designer	50	0.27	22
All Other Professional Occupations	10	0.05	N.A.
Service Occupations	120	0.66	N.A.
Janitors & Porters	100	0.55	14
All Other Service Occupations	20	0.11	N.A.
Maintenance & Production	15,700	85.57	N.A.
Supervisor, Maintenance & Production	280	1.53	8
Sewing Machine Mechanic	70	0.38	11
Presser, Hand	620	3.38	8
Presser, Machine	420	2.29	9
Truck Driver	30	0.16	22
Inspector	250	1.36	13
Instructor Textile	20	0.11	44
Repairer, General Utilities	40	0.22	14
Order Filler	150	0.82	21
Production Packager	50	0.27	27
Sewing Machine Operator, Regular	8,540	46.54	4
Sewing Machine Operator, Automatic	1,360	7.41	16
Bundler	310	1.69	10
Cutter Portable Machine	310	1.69	15
Draper	60	0.33	22
Fusing Machine Operator	20	0.11	40
Garment Repairer	40	0.22	19
Hand Sewer	330	1.80	21
Pattern Cutter	60	0.33	18
Pattern Maker	70	0.38	21
Sample Maker	340	1.85	24
Shaper & Presser	240	1.31	20
Spot Cleaner	20	0.11	28
Spreader	220	1.20	14
Thread Trimmer	610	3.32	9
Work Distributor	170	0.93	10
Marker	50	0.27	16

SIC 233 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Cutter, Hand	130	0.71	24
Turner	250	1.36	20
Folder, Hand	40	0.22	44
Sorbar Operator	50	0.27	22
All Other Skilled Workers	20	0.11	N.A.
All Other Semiskilled Operatives	200	1.09	N.A.
All Other Laborers	330	1.80	N.A.
Clerical Occupations	1,640	8.91	N.A.
Bookkeeping & Billing Machine Operator	30	0.16	20
Computer Operator	20	0.11	23
Keypunch Operator	70	0.38	17
All Other Office Machine Operators	20	0.11	29
Stenographer	10	0.05	45
Accounting Clerk	70	0.38	17
Bookkeeper, Hand	170	0.93	16
File Clerk	20	0.11	23
General Clerk	300	1.63	17
Order Clerk	30	0.16	25
Payroll/Timekeeping Clerk	90	0.49	9
Receptionist	10	0.05	35
Secretary	90	0.49	20
Typist	20	0.11	33
Production Clerk	30	0.16	22
Shipping Packer	140	0.76	14
Shipping/Receiving Clerk	270	1.47	19
Stock Clerk Storeroom/Warehouse	160	0.87	18
Shade Ticket Maker	30	0.16	20
All Other Clerical Occupations	60	0.33	N.A.
Sales Occupations	120	0.65	N.A.
Sales Representatives	70	0.38	29
Sales Clerks	50	0.27	20
TOTAL	18,350	99.97	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
UNDER GARMENTS FOR WOMEN AND CHILDREN (SIC 234)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	60	2.14	15
Professional Occupations	10	0.36	N.A.
Service Occupations	10	0.36	N.A.
Maintenance & Production Occupations	2,460	87.85	N.A.
Supervisor, Maintenance & Production	60	2.14	14
Sewing Machine Mechanic	10	0.36	19
Inspector	100	3.57	23
Order Filler	30	1.07	25
Production Packager	30	1.07	25
Sewing Machine Operator, Regular Equipment	1,470	52.50	3
Sewing Machine Operator, Automatic	60	2.14	19
Bundler	20	0.71	22
Cutter Portable Machine	40	1.43	15
Garment Repairer	10	0.36	23
Pattern Cutter	10	0.36	31
Pattern Maker	10	0.36	22
Sample Maker	10	0.36	45
Shaper & Presser	30	1.07	29
Spreader	30	1.07	16
Thread Trimmer	90	3.21	19
Work Distributor	90	3.21	41
Turner	10	0.36	45
Folder, Hand	60	2.14	18
Sorbar Operator	10	0.36	20
All Other Semiskilled Operatives	30	1.07	N.A.
All Other Unskilled Workers	250	8.93	N.A.
Clerical Occupations	250	8.93	N.A.
Supervisor Clerical	10	0.36	20
Bookkeeping & Billing Machine Operator	10	0.36	25
Accounting Clerk	10	0.36	29
Bookkeeper, Hand	20	0.71	21
General Clerk	10	0.36	20
Payroll/Timekeeping Clerk	20	0.71	9
Secretary	10	0.36	37
Shipping Packer	60	2.14	17
Shipping/Receiving Clerk	30	1.07	14
Stock Clerk, Storeroom & Warehouse	30	1.07	36
All Other Clerical Occupations	40	1.43	N.A.

SIC 234 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Sales Occupations	10	0.36	N.A.
TOTAL	2,800	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISCELLANEOUS APPAREL AND ACCESSORIES (SIC 238)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	120	4.00	16
Professional Occupations	50	1.67	N.A.
Industrial Engineers	10	0.33	28
Designer	20	0.67	47
All Other Professional Occupations	20	0.67	N.A.
Service Occupations	20	0.67	N.A.
Maintenance and Production Occupations	2,350	78.32	N.A.
Supervisor, Maintenance & Production	100	3.33	16
Presser, Hand	40	1.33	35
Presser, Machine	80	2.67	22
Inspector	40	1.33	25
Sewing Machine Operator, Regular Equipment	1,150	38.33	10
Sewing Machine Operator, Automatic	290	9.67	23
Bundler	40	1.33	20
Cutter, Portable Machine	40	1.33	19
Fusing Machine Operator	40	1.33	19
Garment Repairer	20	0.67	28
Hand Sewer	10	0.33	28
Pattern Cutter	30	1.00	43
Pattern Maker	10	0.33	42
Sample Maker	50	1.67	43
Spot Cleaner	20	0.67	43
Spreader	20	0.67	25
Thread Trimmer	90	3.00	15
Work Distributor	20	0.67	23
Marker	20	0.67	24
Cutter Hand	70	2.33	41
Turner	20	0.67	41
Folder, Hand	10	0.33	42
Sorbar Operator, Hand	10	0.33	25
All Other Skilled Workers	50	1.67	N.A.
All Other Semiskilled Operatives	40	1.33	N.A.
All Other Laborers	40	1.33	N.A.
Clerical Occupations	330	10.99	N.A.
Supervisor, Clerical	10	0.33	35
Bookkeeper, Hand	30	1.00	18
General Clerk	30	1.00	25
Order Clerk	10	0.33	30
Payroll/Timekeeper Clerk	20	0.67	15

SIC 238 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Secretary	10	0.33	34
Shipping Packer	30	1.00	21
Shipping/Receiving Clerk	40	1.33	17
Stock Clerk, Storeroom & Warehouse	20	0.67	34
All Other Clerical Occupations	130	4.33	N.A.
Sales Occupations	130	4.34	N.A.
Sales Representatives	110	3.67	26
All Other Sales Occupations	20	0.67	N.A.
TOTAL	3,000	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISCELLANEOUS FABRICATED TEXTILE PRODUCTS (SIC 239)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	590	6.81	8
Professional Occupations	80	0.93	N.A.
Industrial Engineer	10	0.12	26
All Other Engineers	20	0.23	25
Purchasing Agents and/or Buyers	20	0.23	27
Accountants and Auditors	20	0.23	28
All Other Professional Occupations	10	0.12	N.A.
Technical Occupations	20	0.24	N.A.
Computer Programmer	10	0.12	19
All Other Technical Occupations	10	0.12	N.A.
Service Occupations	100	1.15	N.A.
Janitors and Porters	60	0.69	11
Guards	20	0.23	17
All Other Service Occupations	20	0.23	N.A.
Maintenance & Production Occupations	6,630	76.47	N.A.
Supervisor, Maintenance & Production	250	2.88	10
Mechanic, Maintenance	50	0.58	21
Sewing Machine, Maintenance	40	0.46	15
Truck Driver	20	0.23	14
Carpenter	10	0.12	20
Industrial Truck Operator	20	0.23	38
Inspector	230	2.65	48
Machinist	30	0.35	36
Maintenance Repairer, General Utility	40	0.46	21
Order Filler	140	1.61	17
Production Packager	230	2.65	20
Sewing Machine Operator, Regular	1,980	22.84	10
Sewing Machine Operator, Automatic	600	6.92	23
Bundler	70	0.81	31
Cutter Portable Machine	100	1.15	27
Garment Repairer	30	0.35	31
Spreader	30	0.35	19
Thread Trimmer	40	0.46	31
Work Distributor	80	0.92	32
Marker	10	0.12	34
Cutter, Hand	160	1.85	28
Folder, Hand	400	4.61	19

SIC 239 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Sorbar Operator	20	0.23	31
All Other Skilled Workers	270	3.11	N.A.
All Other Semiskilled Operatives	800	9.23	N.A.
All Other Laborers	980	11.30	N.A.
Clerical Occupations	1,130	13.03	N.A.
Supervisor, Clerical	60	0.69	36
Bookkeeper & Billing Machine Operator	20	0.23	26
Keypunch Operator	40	0.46	20
Accounting Clerk	50	0.58	16
Bookkeeper, Hand	80	0.92	26
File Clerk	10	0.12	33
General Clerk	270	3.11	21
Order Clerk	20	0.23	19
Payroll/Timekeeper Clerk	40	0.46	11
Personnel Clerk	10	0.12	24
Secretary	100	1.15	19
Switchboard Operator /Receptionist	20	0.23	20
Typist	30	0.35	22
Production Clerk	20	0.23	25
Shipping Packer	120	1.38	17
Shipping/Receiving Clerk	150	1.73	15
Stock Clerk, Storeroom	30	0.35	17
All Other Clerical Occupations	60	0.69	N.A.
Sales Occupations	120	1.38	N.A.
Sales Representatives	100	1.15	27
Sales Clerks	20	0.23	49
TOTAL	8,670	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MILLWORK, PLYWOOD AND RELATED PRODUCTS (SIC 2430)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	120	11.54	7.6
Professional Occupations	10	0.96	N.A.
Technical Occupations	30	2.88	N.A.
Drafter	20	1.92	41
All Other Technical Occupations	10	0.96	N.A.
Service Occupations	10	0.96	N.A.
Maintenance & Production Occupations	700	67.29	N.A.
Supervisor, Maintenance & Production	20	1.92	16
Truck Driver	30	2.88	19
Cabinet Maker	90	8.65	20
Maintenance Repairer, General Utility	10	0.96	25
Assembler	170	16.35	17
Cut-off Saw Operator	10	0.96	22
Pattern Marker	20	1.92	31
Machinist	80	7.69	27
Ripsaw Operator	10	0.96	29
Tenoner Operator	10	0.96	29
All Other Semiskilled Operatives	170	16.35	N.A.
All Other Laborers	80	7.69	N.A.
Clerical Occupations	100	9.62	N.A.
Accounting Clerk	10	0.96	20
Bookkeeper, Hand	10	0.96	23
General Clerk	20	1.92	39
Secretary	10	0.96	26
Shipping Packer	10	0.96	31
Shipping/Receiving Clerk	10	0.96	19
All Other Office Clerical Workers	30	2.88	N.A.
Sales Occupations	70	6.73	N.A.
Sales Representatives	60	5.77	17
All Other Sales Occupations	10	0.96	N.A.
TOTAL	1,040	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
FURNITURE AND FIXTURES (SIC 25)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	680	6.54	5
Professional Occupations	170	1.64	N.A.
Industrial Engineers	20	0.19	18
Mechanical Engineers	10	0.10	33
All Other Engineers	10	0.10	16
Purchasing Agent and/or Buyer	40	0.38	13
Accountants and Auditors	30	0.29	14
Personnel & Labor Relations Specialist	10	0.10	14
Designer	20	0.19	47
All Other Professional Occupations	30	0.29	N.A.
Technical Occupations	60	0.58	N.A.
Computer Programmer	10	0.10	22
Drafter	20	0.19	19
All Other Technical Occupations	30	0.29	N.A.
Service Occupations	140	1.35	N.A.
Supervisor, Nonworking, Service	10	0.10	31
Janitors & Porters	80	0.77	12
Guards	40	0.38	23
All Other Service Workers	10	0.10	N.A.
Maintenance & Production Workers	8,020	77.13	N.A.
Supervisor, Maintenance & Production	310	2.98	7
Mechanic, Maintenance	20	0.19	21
All Other Mechanics	40	0.38	32
Truck Driver	180	1.73	11
Cabinet Maker	250	2.40	22
Carpenter	100	0.96	31
Delivery Driver	20	0.19	30
Electrician	20	0.19	13
Industrial Truck Operator	50	0.48	9
Inspector	110	1.06	11
Laminating Machine Operator, Furniture	20	0.19	38
Machinist	10	0.10	20
Mattress Maker	60	0.58	33
Maintenance Repairer, General Utility	70	0.67	11
Helper Trades	300	2.88	18
Millwright	30	0.29	42
Order Filler	20	0.19	19
Plumber/Pipefitter	10	0.10	14

SIC 25 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Production Packager	270	2.60	12
Sewing Machine Operator, Regular Equipment, Non-Garment	310	2.98	13
Sewing Machine Operator, Special &/or Automatic Non-Garment	130	1.25	20
Firer, Stationary Boiler	40	0.38	14
Furniture, Finisher	160	1.54	17
Welder and Flamecutter	70	0.67	28
Assembler	890	8.56	8
Band Scroll Saw Operator	70	0.67	11
Boring Machine Operator Wood	100	0.96	11
Cut-Off Saw Operator	150	1.44	12
Dado Operator	10	0.10	17
Decorator	30	0.29	20
Dowel Machine Operator	10	0.10	15
Drill Press/Boring Machine Operator	10	0.10	27
Gluer	30	0.29	15
Gluing Machine Operator	10	0.10	23
Grinding/Abrading Machine Operator	10	0.10	41
Pattern Marker	10	0.10	27
Lathe Operator-Wood	80	0.77	14
Machine Setter Wood	30	0.29	12
Machine-Tool Operator Combination	10	0.10	40
Machine Tool Setter	10	0.10	45
Machinist, Wood	390	3.75	14
Mortising Machine Operator	10	0.10	20
Plastic Top Installer	10	0.10	33
Power Screw Driver Operator	70	0.67	36
Rip & Groove Machine Operator	10	0.10	43
Rip Saw Operator	150	1.44	10
Rubber	70	0.67	15
Sander Wood	420	4.04	9
Shaper Hand	20	0.19	21
Shaper and/or Router Operator	80	0.77	11
Sorter Upholstery Patterns	20	0.19	17
Spring Machine Operator	30	0.29	45
Springer	90	0.87	17
Stapler Machine, Mattress	40	0.38	32
Tenoner Operator	20	0.19	15
Tester	30	0.29	34
Upholstery Trimmer	80	0.77	19
Variety Saw Operator	80	0.77	16
Woodworking Machine Operator	220	2.12	17
Painter Production	310	2.98	8
Riveter Light	50	0.48	32
Punch Press Operator, Metal	150	1.44	19
Punch Press Set-Up Mechanic	10	0.10	35

SIC 25 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Shear/ Slitter Operator	20	0.19	34
Upholsterer	340	3.27	15
Upholstery Cutter	150	1.44	12
Power Brake or Bending Machine Operator	30	0.29	25
All Other Skilled Workers	120	1.15	N.A.
All Other Semiskilled Operatives	260	2.50	N.A.
All Other Laborers	680	6.54	N.A.
Clerical Occupations	1,040	10.02	N.A.
Supervisor, Clerical	20	0.19	20
Bookkeeping & Billing Machine Operator	20	0.19	14
Computer Operator	10	0.10	13
Keypunch Operator	10	0.10	13
Stenographer	10	0.10	22
Accounting Clerk	30	0.29	27
Bookkeeper, Hand	120	1.15	12
File Clerk	30	0.29	23
General Clerk	260	2.50	11
Order Clerk	30	0.29	15
Payroll/Timekeeping Clerk	50	0.48	7
Personnel Clerk	10	0.10	11
Procurement Clerk	10	0.10	17
Secretary	100	0.96	9
Switchboard Operator	10	0.10	24
Switchboard Operator/Receptionist	20	0.19	12
Typist	40	0.38	15
Production Clerk	40	0.38	18
Shipping Packer	60	0.58	13
Shipping/Receiving Clerk	60	0.58	10
Stock Clerk, Storeroom & Warehouse	60	0.58	15
All Other Office Machine Operators	10	0.10	24
All Other Clerical Workers	30	0.29	N.A.
Sales Occupations	290	2.79	N.A.
Sales Representatives	280	2.69	15
Sales Clerks	10	0.10	25
TOTAL	10,400	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
HOUSEHOLD FURNITURE (SIC 251)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	500	6.00	7
Professional Occupations	110	1.32	N.A.
Industrial Engineers	10	0.12	11
Purchasing Agent and/or Buyer	30	0.36	15
Accountants and Auditors	20	0.24	14
Personnel and Labor Relations Specialist	10	0.12	14
All Other Professional Occupations	40	0.48	N.A.
Technical Occupations	40	0.48	N.A.
Drafter	10	0.12	27
All Other Technical Occupations	30	0.36	N.A.
Service Occupations	130	1.56	N.A.
Supervisor, Nonworking Service	10	0.12	38
Janitors & Porters	70	0.84	14
Guards	40	0.48	15
All Other Service Occupations	10	0.12	N.A.
Maintenance & Production Occupations	6,560	78.50	N.A.
Supervisor Maintenance & Production	250	3.00	8
Mechanic Maintenance	10	0.12	25
Truck Driver	140	1.68	15
Cabinet Maker	130	1.56	28
Carpenter	20	0.24	22
Delivery and Route Driver	20	0.24	28
Electrician	10	0.12	11
Industrial Truck Operator	40	0.48	9
Inspector	90	1.08	12
Laminating Machine Operator Furniture	10	0.12	38
Machinist	10	0.12	19
Mattress Maker	50	0.60	37
Maintenance Repairer, General Utility	70	0.84	8
Helper Trades	270	3.24	18
Order Filler	20	0.24	14
Production Packager	230	2.76	13
Sewing Machine Operator, Regular Non-Garment	290	3.48	13
Sewing Machine Operator, Automatic and Special Equipment, Non-Garment	120	1.44	22
Stationary Boiler, Firer	40	0.48	14
Welders and Flamecutters	30	0.36	47
Furniture Finisher	140	1.68	19
Assembler	670	8.03	10
Band Scroll Saw Operator	70	0.84	13

SIC 251 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Boring Machine Operator Wood	90	1.08	12
Cut-Off Saw Operator	140	1.68	13
Dado Operator	10	0.12	20
Decorator	30	0.36	19
Dowel Machine Operator	10	0.12	14
Drill Press/Boring Machine Operator	10	0.12	25
Gluer	30	0.36	11
Gluing Machine Operator	10	0.12	24
Pattern Marker	10	0.12	25
Lathe Operator, Wood	70	0.84	14
Machine Setter, Wood	30	0.36	11
Machinist, Wood	340	4.08	18
Mortising Machine Operator	10	0.12	20
Plastic Top Installer	10	0.12	34
Power Screw Driver Operator	70	0.84	33
Rip and Groove Machine Operator	10	0.12	47
Ripsaw Operator	150	1.80	11
Rubber	70	0.84	13
Sander Wood	400	4.80	9
Shaper Hand	20	0.24	22
Shaper and/or Router Operator	70	0.84	10
Sorter Upholstery Parts	20	0.24	17
Springer	80	0.96	18
Stapler Machine, Mattress	40	0.48	35
Tenoner Operator	20	0.24	16
Tester	30	0.36	18
Upholstery Trimmer	80	0.96	21
Variety Saw Operator	70	0.84	10
Woodworking Machine Operator	160	1.92	21
Painter Production	230	2.76	10
Riveter Light	40	0.48	31
Punch Press Operator Metal	50	0.60	31
Upholsterer	330	3.96	15
Upholstery Cutter	140	1.68	12
Power Brake &/or Bending Machine Operator, Metal	20	0.24	38
All Other Skilled Workers	110	1.32	N.A.
All Other Semiskilled Operatives	210	2.52	N.A.
All Other Laborers	610	7.31	N.A.
Clerical Occupations	770	9.24	N.A.
Clerical Supervisor	10	0.12	11
Bookkeeping and Billing Machine Operator	20	0.24	14
Keypunch Operator	10	0.12	13
Accounting Clerk	10	0.12	22
Bookkeeper, Hand	100	1.20	15
File Clerk	20	0.24	19
General Clerk	190	2.28	11

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Order Clerk	20	0.24	10
Payroll/Timekeeping Clerk	40	0.48	8
Personnel Clerk	10	0.12	14
Procurement Clerk	10	0.12	18
Secretary	80	0.96	9
Switchboard Operator	10	0.12	20
Switchboard Operator/Receptionist	20	0.24	13
Typist	20	0.24	18
Production Clerk	30	0.36	20
Shipping Packer	60	0.72	14
Shipping/Receiving Clerk	50	0.60	11
Stock Clerk Storeroom & Warehouse	40	0.48	9
All Other Clerical Occupations	20	0.24	N.A.
Sales Occupations	230	2.76	N.A.
Sales Representatives	220	2.64	17
Sales Clerks	10	0.12	25
TOTAL	8,340	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
PAPER & ALLIED PRODUCTS (SIC 26)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relati Erro Perce
Managers and Officers	1,690	5.04	6
Professional Occupations	940	2.80	N.A
Chemical Engineer	30	0.09	9
Electronic Engineer	10	0.03	22
Industrial Engineer	70	0.21	11
Mechanical Engineer	80	0.24	18
All Other Engineers	30	0.09	N.A
Chemist	70	0.21	13
Systems Analyst-EDP	20	0.06	24
Purchasing Agent/Buyer	110	0.33	6
Accountants & Auditors	220	0.66	9
Nurse Professional	30	0.09	13
Personnel & Labor Relations Specialist	70	0.21	7
All Other Professional Occupations	200	0.60	N.A
Technical Occupations	290	0.86	N.A
Computer Programmer	30	0.09	23
Drafter	50	0.15	23
All Other Engineering Technicians	120	0.36	27
All Other Technical Occupations	90	0.27	N.A
Service Occupations	880	2.62	N.A.
Supervisor, Nonworking Service	30	0.09	21
Janitors and Porters	630	1.88	8
Guards	100	0.30	15
All Other Service Workers	120	0.36	N.A.
Maintenance & Production Occupations	25,390	75.70	N.A.
Supervisor, Main. & Prod.	1,390	4.14	5
Mechanic, Automotive	30	0.09	18
Mechanic, Maintenance	400	1.19	14
All Other Mechanics & Repairers	40	0.12	17
Truck Driver	390	1.16	12
Carpenter	80	0.24	19
Electrician	190	0.57	9
Industrial Truck Operator	950	2.83	7
Inspector	430	1.28	22
Machinist	240	0.72	16
Main. Repairer, General Utility	510	1.52	13
Helper Trades	190	0.57	20
Millwright	190	0.57	12

SIC 26 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Oiler	90	0.27	11
Order Filler	280	0.83	19
Plumber/Pipefitter	80	0.24	17
Press or Plate Printer	950	2.83	10
Production Packager	1,740	5.19	12
Stationary Boiler, Firer	260	0.78	7
Stationary Engineer	150	0.45	9
Welders & Flame Cutters	40	0.12	15
Coater Operator	180	0.54	22
Convolute Tube/Spiral Tube Winder	100	0.30	35
Paper Reel Operator	460	1.37	18
Tester	330	0.98	20
Cutter Operator	590	1.76	11
Mixer/Blender Chemical	220	0.66	19
All Other Skilled Workers	780	2.33	N.A.
All Other Semiskilled Operatives	11,330	33.78	N.A.
All Other Laborers	2,780	8.29	N.A.
Clerical Occupations	3,340	9.96	N.A.
Clerical Supervisor	90	0.27	22
Bookkeeping & Billing Mach. Oper.	70	0.21	15
Computer Operator	50	0.15	14
Keypunch Operator	100	0.30	13
Stenographer	60	0.18	20
Accounting Clerk	180	0.54	12
Bookkeeper, Hand	80	0.24	16
File Clerk	50	0.15	14
General Clerk	550	1.64	15
Order Clerk	190	0.57	12
Payroll/Timekeeping Clerk	150	0.45	10
Personnel Clerk	40	0.12	19
Procurement Clerk	40	0.12	22
Receptionist	10	0.03	23
Secretary	420	1.25	7
Switchboard Operator	10	0.03	28
Switchboard Oper./Recep.	100	0.30	5
Typist	130	0.39	14
All Other Office Clerical Workers	60	0.18	N.A.
Production Clerk	240	0.72	10
Shipping Packer	230	0.69	10
Shipping/Receiving Clerk	210	0.63	7
Weigher	40	0.12	18
Stock Clerk, Storeroom	110	0.33	11
All Other Plant Clerical Workers	130	0.39	N.A.

SIC 26 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Sales Occupations	1,010	3.01	N.A.
Sales Representative	970	2.89	7
Sales Clerk	40	0.12	20
TOTAL	33,540	100.0	N.A.

N.A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
PAPER MILLS, EXCEPT BUILDING PAPER MILLS (SIC 262)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	330	4.11	14
Professional Occupations	210	2.60	N.A.
Chemical Engineer	20	0.25	34
Electronic Engineer	10	0.12	20
Industrial Engineer	20	0.25	22
Mechanical Engineer	20	0.25	14
Chemist	30	0.37	17
Purchasing Agent and/or Buyer	30	0.37	11
Accountants & Auditors	40	0.50	8
Nurse Professional	10	0.12	14
Personnel & Labor Relations Specialist	20	0.25	10
All Other Professional Occupations	10	0.12	N.A.
Technical Occupations	80	0.99	N.A.
Computer Programmer	10	0.12	45
Drafter	20	0.25	29
All Other Technical Occupations	50	0.62	N.A.
Service Occupations	200	2.49	N.A.
Janitors and Porters	70	0.87	14
Guards	60	0.75	14
All Other Service Occupations	70	0.87	N.A.
Maintenance & Production Occupations	6,220	77.46	N.A.
Supervisor, Maintenance & Production	390	4.86	10
Mechanic Automotive	10	0.12	35
Mechanic Maintenance	100	1.25	26
All Other Mechanics & Repairers	20	0.25	21
Truck Driver	60	0.75	8
Carpenter	10	0.12	32
Electrician	90	1.12	9
Industrial Truck Operator	170	2.12	16
Inspector	150	1.87	49
Instrument Repairer	20	0.25	22
Machinist	40	0.50	18
Maintenance Repairer, General Utility	100	1.25	17
Helper Trades	90	1.12	16
Millwright	130	1.62	13
Oiler	50	0.62	11
Order Filler	80	1.00	32
Painter Maintenance	10	0.12	32

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Plumber/Pipefitter	40	0.50	20
Production Packager	420	5.23	21
Stationary Boiler, Firer	140	1.74	8
Stationary Engineer	90	1.12	8
Welder & Flamecutter	20	0.25	22
Air-Drier-Machine Tender	40	0.50	13
Back Tender	260	3.24	6
Beater Engineer	150	1.87	8
Beater	250	3.11	11
Coater Operator Off-Machine	40	0.50	16
Coating Mixer	40	0.50	22
Convolute Tube or Spiral Tube Winder	10	0.12	25
Cylinder Machine Tender	50	0.62	19
Fourdrinier-Machine Tender	210	2.62	8
Paper Reel Operator	220	2.74	23
Pulp Refiner Operator	30	0.37	27
Pulper	70	0.87	16
Supercalender Operator	80	1.00	29
Tester	260	3.24	20
Wet Machine Tender	10	0.12	20
Core Winder Operator	250	3.11	7
Cutter Operator	150	1.87	24
Fourth/Fifth Hand	340	4.23	14
Mixer/Blender Chemical	30	0.37	31
All Other Skilled Workers	210	2.62	N.A.
All Other Semiskilled Operatives	540	6.72	N.A.
All Other Laborers	750	9.34	N.A.
Clerical Occupations	850	10.57	N.A.
Supervisor Clerical	50	0.62	34
Bookkeeping & Billing Machine Operator	20	0.25	22
Computer Operator	20	0.25	22
Keypunch Operator	20	0.25	19
Stenographer	20	0.25	21
Accounting Clerk	60	0.75	14
Bookkeeper, Hand	10	0.12	27
General Clerk	90	1.12	27
Order Clerk	30	0.37	20
Payroll/Timekeeper Clerk	40	0.50	22
Personnel Clerk	10	0.12	32
Procurement Clerk	10	0.12	25
Secretary	70	0.87	13
Switchboard Operator/Receptionist	20	0.25	7
Typist	60	0.75	23
All Other Office Clerical Workers	40	0.50	N.A.
Production Clerk	40	0.50	12
Shipping Packer	80	1.00	17
Shipping/Receiving Clerk	70	0.87	8
Weigher	10	0.12	24

SIC 262 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Stock Clerk, Storeroom & Warehouse	50	0.62	13
All Other Clerical Occupations	30	0.37	N.A.
Sales Occupations	140	1.74	N.A.
Sales Representatives	130	1.62	10
Sales Clerks	10	0.12	34
TOTAL	8,030	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISCELLANEOUS CONVERTED PAPER PRODUCTS (SIC 264)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	890	6.14	9
Professional Occupations	490	3.41	N.A.
Industrial Engineer	30	0.21	12
Mechanical Engineer	30	0.21	42
All Other Engineers	30	0.21	40
Chemist	30	0.21	25
Systems Analyst EDP	20	0.14	26
Purchasing Agent and/or Buyer	40	0.28	10
Accountants and Auditors	130	0.90	16
Commercial Artist	30	0.21	36
Nurse, Professional	10	0.07	20
Personnel & Labor Relations Specialist	20	0.14	14
Designer	40	0.28	36
All Other Professional Occupations	80	0.55	N.A.
Technical Occupations	210	1.45	N.A.
Computer Programmer	20	0.14	23
Drafter	30	0.21	42
All Other Engineering Technicians	90	0.62	41
All Other Technical Occupations	70	0.48	N.A.
Service Occupations	290	2.00	N.A.
Supervisor, Nonworking Service	20	0.14	29
Janitors and Porters	180	1.24	15
Guards	30	0.21	35
All Other Service Occupations	60	0.41	N.A.
Maintenance & Production Occupations	10,480	72.39	N.A.
Supervisor, Maintenance & Production	570	3.93	6
Mechanic Maintenance	210	1.45	21
All Other Mechanics & Repairers	10	0.07	35
Truck Driver	70	0.48	24
Carpenter	20	0.14	27
Compositor and/or Typesetter	30	0.21	23
Electrician	50	0.35	33
Industrial Truck Operator	320	2.21	12
Inspector	140	0.97	22
Machinist	120	0.83	35
Maintenance Repairer, General Utility	310	2.14	23
Order Filler	180	1.24	26
Press Operator or Plate Printer	560	3.86	13
Production Packager	940	6.49	20

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Scrapper/Stripper	60	0.41	26
Stationary Boiler Firer	30	0.21	33
Stationary Engineer	10	0.07	39
Assembler	740	5.11	26
Rag Machine Operator	350	2.42	32
Box Maker, Paper Board	110	0.76	26
Coater Operator, Off-Machine	150	1.04	31
Combiner Operator	40	0.28	31
Corner Cutter	10	0.07	31
Box Cover Stripper	20	0.14	39
Cutting and Creasing Pressman	50	0.35	30
Die Cutter and/or Clicking Machine Operator	120	0.83	19
Embosser Operator	70	0.48	24
Envelope Machine Operator	490	3.38	28
Etcher and/or Engraver	20	0.14	28
Folding Machine Feeder	20	0.14	32
Folding Machine Operator	20	0.14	27
Four Corners Stayer	10	0.07	33
Layboy Tender	50	0.35	44
Envelope-Finishing-Machine Operator	40	0.28	30
Machine-Set-Up Paper Goods	540	3.73	21
Paper Reel Operator	230	1.59	35
Scorer	10	0.07	32
Slitter-, Creaser-, Slotter Operator	20	0.14	34
Slitting Machine Operator	210	1.45	24
Stapling Machine Operator	30	0.21	31
Wrapping Machine Operator	40	0.28	37
Cutter Operator	240	1.66	16
Collating Mach. Oper. &/or Spiral Binders	10	0.07	30
Mixer/Blender Chemical	160	1.10	28
Extruder Operator, Thermoplastic	110	0.76	34
All Other Skilled Workers	330	2.28	N.A.
All Other Semiskilled Operatives	1,610	11.11	N.A.
All Other Laborers	1,000	6.90	N.A.
Clerical Occupations	1,570	10.86	N.A.
Supervisor, Clerical	30	0.21	23
Bookkeeper and Billing Machine Operator	20	0.14	41
Computer Operator	20	0.14	20
Keypunch Operator	70	0.48	15
Stenographer	30	0.21	29
Accounting Clerk	70	0.48	24
Bookkeeper, Hand	50	0.35	27
File Clerk	20	0.14	24
General Clerk	290	2.00	20
Order Clerk	100	0.69	20
Payroll/Timekeeper Clerk	50	0.35	12
Personnel Clerk	20	0.14	38

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Procurement Clerk	20	0.14	46
Receptionist	10	0.07	28
Secretary	280	1.93	10
Switchboard Operator/Receptionist	30	0.21	10
Typist	50	0.35	18
Box Estimator	10	0.07	28
Production Clerk	120	0.83	22
Shipping Packer	90	0.62	19
Shipping/Receiving Clerk	70	0.48	10
Stock Clerk Storeroom and Warehouse	40	0.28	19
All Other Clerical Occupations	80	0.55	N.A.
Sales Occupations	560	3.87	N.A.
Sales Representatives	550	3.80	15
Sales Clerks	10	0.07	24
TOTAL	14,490	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
PAPERBOARD CONTAINER AND BOXES (SIC 265)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	460	4.88	6
Professional Occupations	200	2.12	N.A.
Industrial Engineer	20	0.21	24
Mechanical Engineer	20	0.21	26
Purchasing Agent and/or Buyer	30	0.32	15
Accountants and Auditors	50	0.53	16
Commercial Artist	20	0.21	32
Personnel & Labor Relations Specialist	20	0.21	20
Designer	30	0.32	18
All Other Professional Occupations	10	0.11	N.A.
Technical Occupations	20	0.21	N.A.
Service Occupations	100	1.06	N.A.
Janitors & Porters	70	0.74	11
All Other Service Occupations	30	0.32	N.A.
Maintenance & Production Occupations	7,540	79.96	N.A.
Supervisor, Maintenance & Production	400	4.24	6
Mechanic Automotive	10	0.11	20
Mechanic Maintenance	90	0.95	14
Truck Driver	240	2.55	10
Carpenter	40	0.42	36
Delivery Driver	10	0.11	26
Electrician	30	0.32	20
Industrial Truck Operator	340	3.61	7
Inspector	120	1.27	19
Machinist	50	0.53	18
Maintenance Repairer, General Utility	100	1.06	12
Oiler	10	0.11	35
Order Filler	20	0.21	42
Pressman and/or Plate Printer	340	3.61	17
Production Packager	330	3.50	16
Scrapper/Stripper	270	2.86	17
Stationary Boiler Firer	50	0.53	20
Stationary Engineer	20	0.21	23
Assembler	210	2.23	25
Automatic Machine Operator	30	0.32	31
Box Maker, Paper Board	290	3.08	29
Carton-Forming Machine Operator	350	3.71	19
Coater Operator, Off-Machine	10	0.11	38

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Combiner Operator	20	0.21	36
Corner Cutter	30	0.32	31
Corrugator Knife Operator	60	0.64	18
Corrugator Operator	80	0.85	18
Box Cover Stripper	20	0.21	46
Cutting & Creasing Press Operator	240	2.55	11
Die Cutter and/or Clicking Machine Operator	140	1.48	13
Die Maker	80	0.85	12
Die Mounter	40	0.42	16
Flexo Folder, Gluer	70	0.74	19
Four Corners Stayer	30	0.32	25
Machine Set-Up Paper Goods	300	3.18	11
Printer Slotter Operator	90	0.95	16
Printer Slotter, Feeder	100	1.06	19
Scorer	40	0.42	22
Slitter Creaser, Slotter	70	0.74	41
Slitter Scorer Cut Operator	50	0.53	26
Slitting Machine Operator	100	1.06	17
Slotter Operator	60	0.64	19
Stapling Machine Operator	50	0.53	21
Taping Machine Operator	150	1.59	14
Waxing Machine Operator	20	0.21	24
Wrapping Machine Operator	150	1.59	22
Cutter Operator	170	1.80	25
Mixer/Blender Chemical	40	0.42	26
All Other Skilled Workers	110	1.17	N.A.
All Other Semiskilled Operatives	850	9.01	N.A.
All Other Laborers	1,020	10.82	N.A.
Clerical Occupations	820	8.71	N.A.
Supervisor Clerical	10	0.11	35
Bookkeeper and Billing Machine Operator	20	0.21	16
Computer Operator	10	0.11	37
Accounting Clerk	50	0.53	15
Bookkeeper, Hand	20	0.21	18
File Clerk	10	0.11	33
General Clerk	160	1.70	15
Order Clerk	50	0.53	23
Payroll/Timekeeper Clerk	50	0.53	17
Personnel Clerk	10	0.11	26
Secretary	80	0.85	9
Switchboard Operator /Receptionist	40	0.42	10
Typist	20	0.21	19
Box Estimator	60	0.64	15
Production Clerk	60	0.64	11
Shipping Packer	40	0.42	23
Shipping/Receiving Clerk	80	0.85	12
Stock Clerk, Storeroom & Warehouse	20	0.21	31
All Other Clerical Occupations	30	0.32	N.A.

SIC 265 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Sales Occupations	290	3.08	N.A.
Sales Representatives	280	2.97	7
Sales Clerks	10	0.11	45
TOTAL	9,430	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
PRINTING AND PUBLISHING (SIC 27)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	3,010	7.16	4
Professional Occupations	3,530	8.40	N.A.
Engineers	60	0.14	13
Systems Analyst, E.D.P.	50	0.12	18
Photographer	140	0.33	13
Purchasing Agent and/or Buyer	90	0.21	6
Accountants and Auditors	150	0.36	6
Commercial Artist	310	0.74	12
Writer and/or Editor	1,200	2.85	8
Personnel and Labor Relations Specialists	40	0.10	11
Reporters and Correspondents	1,020	2.43	17
Designer	100	0.24	39
Estimator Printing Service	130	0.31	10
All Other Professional Occupations	240	0.57	20
Technical Occupations	170	0.40	N.A.
Computer Programmer	100	0.24	27
Drafter	10	0.02	24
All Other Engineering Technicians	30	0.07	27
All Other Technical Occupations	30	0.07	37
Service Occupations	660	1.58	N.A.
Supervisor, Nonworking Service	40	0.10	29
Janitors and Porters	470	1.12	6
Guards	110	0.26	20
Food Service Workers	20	0.05	37
All Other Service Occupations	20	0.05	24
Maintenance & Production Occupations	25,130	59.74	N.A.
Supervisor, Maintenance & Production	740	1.76	5
Supervisor Newspaper Carriers	1,080	2.57	13
Mechanic Automotive	10	0.02	28
Mechanic, Maintenance	230	0.55	10
All Other Mechanics & Repairers	20	0.05	21
Developer/Projection Printer	30	0.07	15
Truck Driver	120	0.29	30
Carpenter	40	0.10	21
Electrician	80	0.19	10
Industrial Truck Operator	230	0.55	16
Inspector	120	0.29	16
Maintenance Repairer, General Utility	90	0.21	8
Machinist	90	0.21	17

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Oiler	10	0.02	29
Order Filler	200	0.48	21
Painter, Maintenance	20	0.05	23
Plumber, Pipefitter	20	0.05	16
Production Packager	780	1.85	43
Offset Lithographic Press Operator	2,590	6.16	6
Platemaker	460	1.09	11
Stripper	820	1.95	8
Camera Operator	540	1.28	11
Photolettering Machine Operator	90	0.21	20
Screen Printer	70	0.17	36
Vulcanizer, Rubber Plate	20	0.05	27
Cutter, Operator	230	0.55	9
Mark-Up Designer	170	0.40	9
Copy Cutter	50	0.12	21
Hand Compositer	830	1.97	13
Imposers	340	0.81	10
Linecasting Machine Operator	730	1.74	9
Linecasting Machine Keyboard Operator	310	0.74	11
Linecasting Machine Tender	170	0.40	12
Ludlow Machine Operator	20	0.05	17
Monotype Casting Machine Operator	30	0.07	18
Monotype Keyboard Operator	80	0.19	27
Paste-Up-Arranger	630	1.50	8
Phototypesetting Machine Keyboard Operator	290	0.69	11
Phototypesetting Machine Monitor	80	0.19	15
Phototypesetter Operator	380	0.90	14
Proofreader, Compositor	580	1.38	8
Artist	80	0.19	17
Photoengraver	380	0.90	15
Stereotyper	220	0.52	18
Flexographic Press Operator	20	0.05	35
Gravure Press Operator	20	0.05	48
Inker	20	0.05	34
Letterpresser	1,490	3.54	8
Letterset Presser	80	0.19	23
Proof Press Operator	10	0.02	29
Steel Die Presser	60	0.14	36
Press Assistants and Feeders	1,070	2.54	10
Bindery Machine Set Up Operator	800	1.90	20
Bindery Worker	2,660	6.32	9
Bookbinder	400	0.95	23
Mailer	730	1.74	13
All Other Skilled Workers	460	1.09	N.A.
All Other Semiskilled Operatives	1,060	2.52	N.A.
All Other Laborers	2,150	5.11	N.A.

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Clerical Occupations	7,610	18.13	N.A.
Supervisor Clerical	180	0.43	25
Addressing Machine Operator	20	0.05	21
Bookkeeping & Billing Machine Operator	80	0.19	11
Computer Operator	150	0.36	23
Keypunch Operator	130	0.31	9
Peripheral EDP Equipment Operator	70	0.17	39
Inserting &/or Labeling Machine Operator	20	0.05	40
Stenographer	50	0.12	15
Accounting Clerk	370	0.88	6
Bookkeeper Hand	530	1.26	7
Cashier	30	0.07	16
Correspondence Clerk	80	0.19	22
File Clerk	160	0.38	27
General Clerk	1,300	3.09	9
Order Clerk	180	0.43	18
Payroll/Timekeeping Clerk	110	0.26	6
Personnel Clerk	40	0.10	11
Procurement Clerk	30	0.07	12
Receptionist	20	0.05	16
Secretary	770	1.83	7
Switchboard Operator	80	0.19	13
Switchboard Operator/Receptionist	120	0.29	4
Typist	600	1.43	12
Circulation Clerk	190	0.45	15
Classified Ad Clerk	50	0.12	25
Customer Service Representative	150	0.36	9
Telephone Ad Taker	150	0.36	18
Production Clerk	270	0.64	13
Shipping Packer	380	0.90	12
Shipping/Receiving Clerk	500	1.19	7
Stock Clerk, Storeroom & Warehouse	140	0.33	11
All Other Office Machine Operators	40	0.10	26
All Other Office Clerical Workers	550	1.31	13
All Other Plant Clerical Workers	70	0.17	19
Sales Occupations	1,950	4.64	N.A.
Sales Representatives	1,740	4.14	4
Sales Clerks	20	0.05	22
All Other Sales Occupations	190	0.45	15
TOTAL	42,060	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
NEWSPAPERS, PUBLISHING AND PRINTING (SIC 271)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	810	6.06	12
Professional Occupations	2,330	17.41	N.A.
Systems Analyst, EDP	10	0.07	20
Photographer	140	1.05	9
Purchasing Agent and/or Buyer	10	0.07	20
Accountants and Auditors	30	0.22	17
Commercial Artist	180	1.35	16
Writer and/or Editor	860	6.43	7
Reporters and Correspondents	1,050	7.85	15
All Other Professional Occupations	50	0.37	N.A.
Technical Occupations	20	0.14	N.A.
Computer Programmer	10	0.07	29
All Other Technical Occupations	10	0.07	N.A.
Service Occupations	250	1.87	N.A.
Janitors and Porters	210	1.57	10
All Other Service Occupations	40	0.30	N.A.
Maintenance & Production Occupations	6,920	51.74	N.A.
Supervisor, Maintenance & Production	110	0.82	19
Mechanic Maintenance	70	0.52	14
Developer and/or Projection Printer	20	0.15	21
Carpenter	10	0.07	18
Delivery Driver	890	6.66	11
Electrician	40	0.30	20
Industrial Truck Operator	30	0.22	19
Machinist	20	0.15	33
Maintenance Repairer, General Utility	30	0.22	18
Offset Lithographic Operator	220	1.65	20
Platemaker	30	0.22	21
Stripper	40	0.30	28
Photographer	90	0.67	12
Strike on Machine Operator	20	0.15	32
Photolettering Machine Operator	50	0.37	48
Mark-Up Designer	150	1.12	9
Copy Cutter	40	0.30	21
Hand Compositor	290	2.17	14
Imposer and Make-Up Operators	200	1.50	13
Linecasting Machine Operator	340	2.54	18
Linecasting Machine Keyboard Operator	240	1.80	18

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Linecasting Machine Tender	120	0.90	15
Ludlow Machine Operator	10	0.07	29
Paste-Up Arranger	400	2.99	7
Phototypesetting Machine Operator	180	1.35	14
Phototypesetter Monitor	60	0.45	19
Phototypesetter Operator	280	2.09	19
Proofreader, Compositor	250	1.87	10
Artist	10	0.07	38
Photoengraver	240	1.80	12
Stereotyper	250	1.87	15
Letterpress Operator	700	5.24	13
Press Assistants and Feeders	100	0.75	40
Mailer	710	5.31	13
All Other Skilled Workers	110	0.82	N.A.
All Other Semiskilled Operatives	290	2.17	N.A.
All Other Laborers	280	2.09	N.A.
Clerical Occupations	2,160	16.12	N.A.
Supervisor Clerical	50	0.37	13
Addressing Machine Operator	20	0.15	20
Bookkeeping & Billing Machine Operator	50	0.37	14
Computer Operator	20	0.15	34
Keypunch Operator	30	0.22	12
Stenographer	30	0.22	23
Accounting Clerk	150	1.12	13
Bookkeeper, Hand	150	1.12	26
Cashier	30	0.22	20
General Clerk	250	1.87	14
Payroll/Timekeeping Clerk	30	0.22	20
Secretary	210	1.57	16
Switchboard Operator	80	0.60	6
Switchboard Operator/Receptionist	30	0.22	14
Typist	60	0.45	34
Circulation Clerk	140	1.05	19
Customer Service Representative	10	0.07	35
Telephone Ad Taker	170	1.27	14
Shipping Packer	20	0.15	31
Shipping/Receiving Clerk	20	0.15	23
Stock Clerk, Storeroom & Warehouse	20	0.15	40
All Other Clerical Occupations	590	4.41	N.A.
Sales Occupations	880	6.58	N.A.
Sales Representatives	710	5.31	6
All Other Sales Occupations	170	1.27	N.A.
TOTAL	13,370	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
PERIODICALS, PUBLISHING AND PRINTING (SIC 272)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	230	16.20	9
Professional Occupations	270	19.00	N.A.
Purchasing Agent and/or Buyer	10	0.70	17
Accountants and Auditors	10	0.70	25
Commercial Artist	10	0.70	31
Writer and/or Editor	210	14.79	13
Reporters and Correspondents	30	2.11	49
Service Occupations	10	0.70	N.A.
Maintenance & Production Occupations	210	14.79	N.A.
Hand Compositor	20	1.41	36
Linecasting Machine Keyboard Operator	10	0.70	39
Paste-Up Arranger	20	1.41	31
Proofreader Compositer	20	1.41	42
Artist	10	0.70	31
All Other Skilled Workers	80	5.63	N.A.
All Other Semiskilled Operatives	50	3.52	N.A.
Clerical Occupations	580	40.83	N.A.
Accounting Clerk	20	1.41	34
Bookkeeper, Hand	50	3.52	19
General Clerk	140	9.86	32
Secretary	130	9.15	14
Switchboard Operator/Receptionist	10	0.70	27
Typist	50	3.52	41
Circulation Clerk	80	5.63	23
Shipping/Receiving Clerk	20	1.41	23
All Other Clerical Occupations	80	5.63	N.A.
Sales Occupations	120	8.45	N.A.
Sales Representatives	110	7.75	15
All Other Sales Occupations	10	0.70	N.A.
TOTAL	1,420	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
BOOKS, PUBLISHING & PRINTING (SIC 273)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	370	6.09	15
Professional Occupations	500	8.20	N.A.
Engineers	10	0.16	38
Systems Analyst, EDP	10	0.16	27
Purchasing Agent and/or Buyer	10	0.16	12
Accountants & Auditors	30	0.49	10
Commercial Artist	30	0.49	48
Writer and/or Editor	220	3.62	31
Personnel & Labor Relations Specialist	10	0.16	24
Designer	30	0.49	29
Estimator Printing Service	40	0.66	31
All Other Professional Occupations	110	1.81	N.A.
Technical Occupations	10	0.16	N.A.
Service Occupations	110	1.80	N.A.
Janitors & Porters	50	0.82	11
Guards	50	0.82	22
All Other Service Occupations	10	0.16	N.A.
Maintenance & Production Occupations	3,660	60.19	N.A.
Supervisor, Maintenance & Production	120	1.97	18
Mechanic Maintenance	40	0.66	39
Truck Driver	10	0.16	14
Delivery Driver	10	0.16	27
Electrician	20	0.33	43
Industrial Truck Operator	70	1.15	12
Plumber/Pipefitter	10	0.16	24
Offset Lithographic Operator	230	3.78	29
Platemaker	90	1.48	20
Stripper	170	2.80	26
Photographer	60	0.99	21
Cutter Operator	40	0.66	20
Mark-Up Designer	10	0.16	29
Hand Compositor	60	0.99	19
Imposer & Mark-Up Designer	10	0.16	19
Linecasting Machine Operator	90	1.48	21
Paste-Up Arranger	20	0.33	21
Proofreader, Compositor	120	1.97	18
Letterpress Operator	70	1.15	36
Press Assistants & Feeders	350	5.76	24
Bindery Worker	370	6.09	17
Bookbinder	300	4.93	18

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Mailer	10	0.16	43
All Other Skilled Workers	350	5.76	N.A.
All Other Semiskilled Operatives	370	6.09	N.A.
All Other Laborers	660	10.86	N.A.
Clerical Occupations	1,330	21.86	N.A.
Supervisor Clerical	80	1.32	36
Computer Operator	20	0.33	22
Keypunch Operator	40	0.66	22
Accounting Clerk	70	1.15	18
Bookkeeper, Hand	30	0.49	41
Correspondence Clerk	60	0.99	35
General Clerk	230	3.78	18
Payroll/Timekeeping Clerk	20	0.33	8
Personnel Clerk	10	0.16	38
Procurement Clerk	10	0.16	35
Receptionist	10	0.16	45
Secretary	150	2.47	30
Switchboard Operator/Receptionist	20	0.33	15
Typist	100	1.64	31
Customer Service Representative	40	0.66	22
Shipping Packer	140	2.30	19
Shipping/Receiving Clerk	90	1.48	15
Stock Clerk, Storeroom & Warehouse	50	0.82	19
All Other Clerical Occupations	160	2.63	N.A.
Sales Occupations	100	1.64	N.A.
Sales Representatives	90	1.48	16
All Other Sales Occupations	10	0.16	N.A.
TOTAL	6,080	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
COMMERCIAL PRINTING (SIC 275)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,080	8.96	5
Professional Occupations	320	2.65	N.A.
Engineers	10	0.08	8
Systems Analyst, EDP	20	0.17	10
Purchasing Agent and/or Buyer	30	0.25	7
Accountants and Auditors	40	0.33	7
Commercial Artist	70	0.58	22
Writer and Editor	20	0.17	36
Personnel and Labor Relations Specialist	10	0.08	N.A.
Designer	10	0.08	26
Estimator Printing Service	50	0.41	8
All Other Professional Occupations	60	0.50	N.A.
Technical Occupations	50	0.41	N.A.
Computer Programmer	40	0.33	15
All Other Technical Occupations	10	0.08	N.A.
Service Occupations	160	1.32	N.A.
Supervisor, Nonworking Service	10	0.08	22
Janitors and Porters	140	1.16	9
All Other Service Occupations	10	0.08	N.A.
Maintenance & Production Occupations	8,000	66.40	N.A.
Supervisor, Maintenance & Production	300	2.49	8
Mechanic, Maintenance	20	0.17	7
Developer and/or Projection Printers	10	0.08	22
Truck Driver	30	0.25	9
Carpenter	10	0.08	17
Delivery Driver	110	0.91	10
Electrician	10	0.08	14
Industrial Truck Operator	60	0.50	37
Inspector	60	0.50	20
Machinist	20	0.17	21
Maintenance Repairer, General Utility	20	0.17	14
Order Filler	10	0.08	18
Production Packager	10	0.08	20
Offset Lithographic Press Operator	1,510	12.53	4
Platemaker	240	1.99	8
Stripper	460	3.82	7
Photographer	320	2.66	18
Strike-on-Machine Operator	30	0.25	44
Photolettering Machine Operator	20	0.17	14

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Screen Printers	50	0.41	45
Cutter Operator	110	0.91	8
Mark-Up Designer	10	0.08	16
Copy Cutter	10	0.08	38
Hand Compositor	370	3.07	7
Imposer and Make-Up Arranger	70	0.58	16
Linecasting Machine Operator	220	1.83	10
Linecasting Machine Keyboard Operator	40	0.33	30
Linecasting Machine Tender	30	0.25	30
Ludlow Machine Operator	10	0.08	24
Monotype Casting Machine Operator	10	0.08	38
Monotype Keyboard Operator	20	0.17	20
Paste-Up Arranger	80	0.66	15
Phototypesetting Machine Operator	30	0.25	17
Phototypesetting Machine Monitor	10	0.08	17
Phototypesetter Operator	20	0.17	34
Proofreader, Compositor	130	1.08	6
Artist	40	0.33	16
Photoengraver	50	0.41	25
Flexographic Press Operator	20	0.17	40
Gravure Press Operator	20	0.17	29
Inker	10	0.08	34
Letter Press Operator	700	5.81	9
Letter Set Press Operator	60	0.50	27
Proof-Press Operator	10	0.08	29
Steel-Die Press Operator	20	0.17	35
Press Assistant Operator	480	3.98	10
Bindery Machine Set-Up Operator	260	2.16	7
Bindery Worker	1,150	9.54	5
Bookbinder	20	0.17	25
Mailer	60	0.50	17
All Other Skilled Workers	20	0.17	N.A.
All Other Semiskilled Operatives	190	1.58	N.A.
All Other Laborers	420	3.49	N.A.
Clerical Occupations	1,930	16.00	N.A.
Supervisor Clerical	20	0.17	9
Bookkeeping & Billing Machine Operator	10	0.08	24
Computer Operator	60	0.50	13
Keypunch Operator	20	0.17	6
Peripheral EDP Equipment Operator	40	0.33	14
Stenographer	20	0.17	15
Accounting Clerk	50	0.41	8
Bookkeeper, Hand	240	1.99	9
File Clerk	80	0.66	12
General Clerk	380	3.15	8
Order Clerk	50	0.41	16

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Payroll/Timekeeping Clerk	20	0.17	6
Personnel Clerk	10	0.08	13
Receptionist	10	0.08	35
Secretary	190	1.58	8
Switchboard Operator/Receptionist	40	0.33	5
Typist	200	1.66	12
Customer Service Representative	40	0.33	11
Production Clerk	50	0.41	10
Shipping Packer	90	0.75	14
Shipping/Receiving Clerk	240	1.99	8
Stock Clerk, Storeroom & Warehouse	40	0.33	7
All Other Clerical Occupations	30	0.25	N.A.
Sales Occupations	510	4.23	N.A.
Sales Representatives	500	4.15	7
All Other Sales Occupations	10	0.08	N.A.
TOTAL	12,050	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
BLANKBOOKS AND BOOKBINDING (SIC 278)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	230	4.99	15
Professional Occupations	60	1.31	N.A.
Purchasing Agent and/or Buyer	20	0.43	14
Accountants and Auditors	10	0.22	33
Personnel & Labor Relations Specialist	10	0.22	25
All Other Professional Occupations	20	0.43	N.A.
Service Occupations	70	1.51	N.A.
Janitors and Porters	50	1.08	15
All Other Service Occupations	20	0.43	N.A.
Maintenance & Production Occupations	3,590	77.86	N.A.
Supervisor, Maintenance & Production	80	1.74	14
Mechanic, Maintenance	20	0.43	25
Delivery Driver	20	0.43	25
Industrial Truck Operator	60	1.30	41
Machinist	30	0.65	46
Maintenance Repairer, General Utility	30	0.65	29
Order Filler	60	1.30	38
Cutter Operator	90	1.95	18
Bindery Machine Set-Up Operator	500	10.85	26
Bindery Worker	900	19.52	14
All Other Skilled Workers	60	1.30	N.A.
All Other Semiskilled Operatives	910	19.74	N.A.
All Other Laborers	830	18.00	N.A.
Clerical Occupations	560	12.16	N.A.
Supervisor, Clerical	10	0.22	30
Bookkeeping & Billing Machine Operator	30	0.65	44
Keypunch Operator	20	0.43	46
Bookkeeper Hand	40	0.87	22
File Clerk	10	0.22	36
General Clerk	60	1.30	36
Order Clerk	40	0.87	42
Payroll/Timekeeping Clerk	20	0.43	19
Personnel Clerk	10	0.22	33
Secretary	40	0.87	23
Switchboard Operator/Receptionist	10	0.22	23
Typist	40	0.87	25
Production Clerk	30	0.65	22
Shipping Packer	60	1.30	30
Shipping/Receiving Clerk	60	1.30	15
Stock Clerk, Storeroom & Warehouse	10	0.22	44
All Other Clerical Occupations	70	1.52	N.A.

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Sales Occupations	100	2.17	N.A.
Sales Representatives	100	2.17	21
TOTAL	4,610	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
SERVICES FOR THE PRINTING TRADE (SIC 279)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	110	8.09	10
Professional Occupations	40	2.94	N.A.
Commercial Artist	20	1.47	37
All Other Professional Occupations	20	1.47	N.A.
Technical Occupations	10	0.74	N.A.
Service Occupations	10	0.74	N.A.
Maintenance & Production Occupations	980	72.06	N.A.
Supervisor, Maintenance & Production	30	2.21	17
Delivery Drivers	30	2.21	28
Machinist	10	0.74	28
Stripper	60	4.41	32
Photographer	50	3.63	18
Photolettering Machine Operator	40	2.94	29
Mark-Up Designer	20	1.47	24
Hand Compositor	70	5.17	14
Imposers and Mark-Up Designer	20	1.47	36
Linecasting Machine Operator	100	7.35	34
Monotype Keyboard Operator	60	4.41	30
Paste-Up Arranger	50	3.68	22
Phototypesetting Machine Operator	30	2.21	21
Phototypesetting Machine Monitor	10	0.74	27
Proofreader, Compositor	60	4.41	16
Photoengraver	110	8.09	38
Letterpress Operator	30	2.21	39
All Other Skilled Workers	30	2.21	N.A.
All Other Semiskilled Operatives	160	11.76	N.A.
All Other Laborers	10	0.74	N.A.
Clerical Occupations	150	11.03	N.A.
Bookkeeper, Hand	20	1.47	42
General Clerk	40	2.94	24
Secretary	10	0.74	29
Typist	10	0.74	20
Production Clerk	10	0.74	33
Shipping/Receiving Clerk	20	1.47	28
All Other Clerical Occupations	40	2.94	N.A.
Sales Occupations	60	4.41	N.A.
TOTAL	1,360	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
CHEMICALS & ALLIED PRODUCTS SIC (28)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,640	8.56	5
Professional Occupations	1,810	9.45	N.A.
Chemical Engineers	330	1.72	10
Electronic Engineers	20	0.10	15
Industrial Engineers	50	0.26	28
Mechanical Engineers	180	0.94	8
Safety Engineer	20	0.10	18
All Other Engineers	60	0.31	N.A.
Chemist	570	2.98	14
Systems Analyst-EDP	40	0.21	22
Purchasing Agent/Buyer	90	0.47	8
Accountants & Auditors	210	1.10	10
Nurse Professional	10	0.05	17
Personnel & Labor Relations Specialist	50	0.26	14
Designer	10	0.05	47
All Other Professional Occupations	170	0.89	N.A.
Technical Occupations	660	3.45	N.A.
Computer Programmer	50	0.26	22
Drafter	50	0.26	23
All Other Engineering Technicians	180	0.94	12
Science Technician	330	1.72	15
All Other Technical Occupations	50	0.26	34
Service Occupations	430	2.25	N.A.
Supervisor, Nonworking Service	30	0.16	12
Janitors and Porters	240	1.25	9
Guards	110	0.57	12
All Other Service Workers	50	0.26	N.A.
Maintenance & Production Occupations	11,030	57.60	N.A.
Supervisor, Main. & Production	690	3.60	7
Mechanic, Automotive	20	0.10	36
Mechanic, Maintenance	280	1.46	20
All Other Mechanics & Repairers	30	0.16	16
Truck Driver	320	1.67	20
Asbestos & Insulation Workers	20	0.10	25
Carpenter	50	0.26	15
Compositor/Typesetter	10	0.05	39
Crane/Derrick Operator	40	0.21	49

SIC 28 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Delivery & Route Drivers	30	0.16	11
Electrician	140	0.73	7
Industrial Truck Operator	330	1.72	16
Inspector	220	1.15	28
Instrument Repairer	50	0.26	15
Machinist	150	0.78	18
Main. Repairer, General Utility	380	1.98	13
Helper Trades	60	0.31	41
Millwright	100	0.52	21
Order Filler	130	0.68	17
Painter, Maintenance	40	0.21	29
Plumber/Pipefitter	170	0.89	19
Production Packager	800	4.18	11
Sheet Metal Worker	20	0.10	17
Stationary Boiler Fixer	90	0.47	16
Stationary Engineer	40	0.21	36
Welders & Flame Cutters	40	0.21	26
Chemical Operator A	500	2.61	10
Chemical Operator B	360	1.88	19
Chemical Operator Helper	560	2.92	25
Kettle Operator, Adhesive	170	0.89	17
Tester	70	0.37	28
Grinder Operator, Chemical	200	1.04	17
Drier, Chemical	120	0.63	40
Chief Operator	150	0.78	20
Mixer/Blender Chemical	750	3.92	19
All Other Skilled Workers	170	0.89	N.A.
All Other Semiskilled Operatives	2,230	11.64	N.A.
All Other Laborers	1,500	7.83	N.A.
Clerical Occupations	3,090	16.14	N.A.
Clerical Supervisor	70	0.37	20
Bookkeeping & Billing Machine Oper.	20	0.10	23
Computer Operator	30	0.16	19
Keypunch Operator	80	0.42	14
All Other Office Machine Oper.	20	0.10	28
Stenographer	180	0.94	21
Accounting Clerk	210	1.10	21
Bookkeeper Hand	160	0.84	12
Cashier	10	0.05	25
File Clerk	50	0.26	38
General Clerk	360	1.88	10
Order Clerk	180	0.94	14
Payroll/Timekeeping Clerk	50	0.26	14
Personnel Clerk	40	0.21	15
Procurement Clerk	30	0.16	21
Receptionist	20	0.10	18

SIC 28 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Secretary	510	2.66	7
Switchboard Operator	20	0.10	14
Switchboard Oper./Receptionist	50	0.26	10
Typist	230	1.20	15
All Other Office Clerical Workers	50	0.26	N.A.
Production Clerk	60	0.31	13
Shipping Packer	260	1.36	19
Shipping Receiving Clerk	190	0.99	11
Stock Clerk, Storeroom	150	0.78	13
All Other Plant Clerical Workers	60	0.31	N.A.
Sales Occupations	490	2.56	N.A.
Sales Representative	480	2.51	13
All Other Sales Occupations	10	0.05	N.A.
TOTAL	19,150	100.0	N.A.

N.A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
INDUSTRIAL CHEMICALS (SIC 281)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	140	9.09	9
Professional Occupations	170	11.04	N.A.
Chemists	100	6.49	24
Purchasing Agent and/or Buyer	10	0.65	20
All Other Professional Occupations	60	3.90	N.A.
Technical Occupations	50	3.25	N.A.
Science Technician	20	1.30	24
All Other Technical Occupations	30	1.95	N.A.
Service Occupations	40	2.60	N.A.
Maintenance & Production Occupations	950	61.70	N.A.
Supervisor, Maintenance & Production	70	4.55	14
Mechanic, Maintenance	30	1.95	30
Industrial Truck Operator	40	2.60	19
Maintenance Repairer, General Utility	40	2.60	34
Production Packager	60	3.90	30
Chemical Operator B	120	7.79	18
Chemical Operator, Helper	80	5.19	16
Grinder Operator, Chemical	20	1.30	47
All Other Skilled Workers	250	16.23	N.A.
All Other Laborers	240	15.58	N.A.
Clerical Occupations	160	10.40	N.A.
Accounting Clerk	10	0.65	22
General Clerk	40	2.60	23
Secretary	50	3.25	21
Typist	20	1.30	26
All Other Clerical Occupations	40	2.60	N.A.
Sales Occupations	30	1.95	N.A.
TOTAL	1,540	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
PLASTIC MATERIALS AND SYNTHETICS (SIC 282)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	380	5.18	8
Professional Occupations	780	10.64	N.A.
Chemical Engineer	270	3.68	10
Electronic Engineer	10	0.14	16
Mechanical Engineer	150	2.05	9
Safety Engineer	10	0.14	30
Chemist	110	1.50	16
Purchasing Agent and/or Buyer	20	0.27	15
Accountants and Auditors	60	0.82	16
Personnel & Labor Relations Specialist	20	0.27	19
All Other Professional Occupations	130	1.77	N.A.
Technical Occupations	320	4.36	N.A.
Computer Programmer	20	0.27	19
Drafter	20	0.27	15
All Other Engineering Technicians	170	2.32	14
Science Technicians	100	1.36	25
All Other Technical Occupations	10	0.14	N.A.
Service Occupations	170	2.32	N.A.
Janitors & Porters	100	1.36	8
Guards	30	0.41	30
All Other Service Occupations	40	0.55	N.A.
Maintenance & Production Occupations	4,790	65.34	N.A.
Supervisor, Maintenance & Production	340	4.64	8
Mechanic, Maintenance	60	0.82	44
Truck Driver	120	1.64	40
Carpenter	20	0.27	16
Electrician	80	1.09	8
Industrial Truck Operator	80	1.09	21
Inspector	110	1.50	30
Instrument Repairer	30	0.41	10
Machinist	50	0.68	38
Maintenance Repairer, General Utility	220	3.00	18
Millwright	90	1.23	25
Production Packager	240	3.27	30
Stationary Boiler Firer	30	0.41	36
Welders and Flame Cutters	20	0.27	31
Chemical Operator A	340	4.64	12
Chemical Operator B	90	1.23	25
Chemical Operator, Helper	170	2.32	23
Kettle Operator, Adhesive	120	1.64	20

SIC 282 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Tester	60	0.82	38
Grinder Operator Chemical	50	0.68	35
Extruder Operator, Helper	110	1.50	44
Mixer/Blender, Chemicals	150	2.05	26
Extruder Operator Thermoplastic	350	4.77	41
All Other Skilled Workers	260	3.55	N.A.
All Other Semiskilled Operatives	1,050	14.32	N.A.
All Other Laborers	550	7.50	N.A.
Clerical Occupations	780	10.66	N.A.
Supervisor, Clerical	30	0.41	19
Computer Operator	10	0.14	39
Keypunch Operator	20	0.27	32
Accounting Clerk	40	0.55	24
Bookkeeper, Hand	30	0.41	13
General Clerk	70	0.96	31
Order Clerk	40	0.55	28
Payroll/Timekeeper Clerk	20	0.27	16
Personnel Clerk	10	0.14	25
Secretary	180	2.46	10
Switchboard Operator/Receptionist	20	0.27	18
Typist	50	0.68	11
Production Clerk	30	0.41	19
Shipping Packer	40	0.55	27
Shipping/Receiving Clerk	50	0.68	16
Stock Clerk, Storeroom & Warehouse	20	0.27	41
All Other Clerical Occupations	120	1.64	N.A.
Sales Occupations	110	1.50	N.A.
TOTAL	7,330	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
SOAPS, CLEANERS, AND TOILET GOODS (SIC 284)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	430	12.32	9
Professional Occupations	270	7.75	N.A.
Chemical Engineer	10	0.29	49
Industrial Engineer	20	0.57	16
Mechanical Engineer	10	0.29	18
Chemist	80	2.29	27
Systems Analyst, EDP	10	0.29	16
Purchasing Agent and/or Buyer	20	0.57	13
Accountants and Auditors	40	1.15	10
Personnel & Labor Relations Specialists	10	0.29	16
All Other Professional Occupations	70	2.01	N.A.
Technical Occupations	60	1.72	N.A.
Drafter	10	0.29	16
All Other Technical Occupations	50	1.43	N.A.
Service Occupations	100	2.86	N.A.
Janitors and Porters	50	1.43	26
Guards	30	0.86	16
All Other Service Occupations	20	0.57	N.A.
Maintenance & Production Occupations	1,780	51.01	N.A.
Supervisor, Maintenance & Production	80	2.29	9
Mechanic, Maintenance	90	2.58	13
Truck Driver	50	1.43	39
Carpenter	10	0.29	30
Electrician	20	0.57	21
Industrial Truck Operator	110	3.15	14
Machinist	30	0.86	33
Maintenance Repairer, General Utility	40	1.15	48
Helper Trades	10	0.29	20
Order Filler	30	0.86	18
Production Packager	220	6.30	20
Chemical Operator B	70	2.01	24
Chemical Operator Helper	80	2.29	32
Grinder Operator, Chemical	10	0.29	28
Mixer/Blender Chemical	200	5.73	20
All Other Skilled Workers	90	2.58	N.A.
All Other Semiskilled Operatives	200	5.73	N.A.
All Other Laborers	440	12.61	N.A.
Clerical Occupations	760	21.80	N.A.

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Computer Operator	10	0.29	33
Keypunch Operator	20	0.57	21
Stenographer	70	2.01	15
Accounting Clerk	20	0.57	24
Bookkeeper, Hand	60	1.72	18
File Clerk	10	0.29	49
General Clerk	100	2.87	26
Order Clerk	40	1.15	27
Payroll/Timekeeping Clerk	10	0.29	25
Personnel Clerk	10	0.29	12
Secretary	110	3.15	11
Typist	60	1.72	13
Shipping Packer	90	2.58	24
Shipping/Receiving Clerk	30	0.86	28
Stock Clerk, Storeroom & Warehouse	50	1.43	11
All Other Clerical Occupations	70	2.01	N.A.
Sales Occupations	90	2.58	N.A.
Sales Representatives	90	2.58	28
TOTAL	3,490	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
PAINTS AND ALLIED PRODUCTS (SIC 285)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	140	9.40	8
Professional Occupations	100	6.71	N.A.
Chemist	80	5.37	12
Purchasing Agent and/or Buyer	10	0.67	25
Accountants and Auditors	10	0.67	29
Technical Occupations	20	1.34	N.A.
Service Occupations	10	0.67	N.A.
Maintenance & Production Occupations	830	55.67	N.A.
Supervisor, Maintenance & Production	30	2.01	15
Mechanic, Maintenance	10	0.67	29
Truck Driver	40	2.68	20
Industrial Truck Operator	10	0.67	20
Maintenance Repairer, General Utility	30	2.01	16
Order Filler	30	2.01	36
Production Packager	140	9.40	22
Chemical Operator A	20	1.34	38
Chemical Operator B	10	0.67	16
Chemical Operator Helper	30	2.01	31
Grinder Operator, Chemicals	40	2.68	15
Tinter	70	4.70	12
Mixer/Blender, Chemical	120	8.05	13
All Other Skilled Workers	30	2.01	N.A.
All Other Semiskilled Operatives	100	6.71	N.A.
All Other Laborers	120	8.05	N.A.
Clerical Occupations	280	18.76	N.A.
Accounting Clerk	10	0.67	20
Bookkeeper, Hand	20	1.34	12
General Clerk	40	2.68	15
Order Clerk	20	1.34	18
Payroll/Timekeeping Clerk	10	0.67	35
Procurement Clerk	10	0.67	29
Secretary	30	2.01	12
Switchboard Operator/Receptionist	10	0.67	28
Typist	20	1.34	49
Shipping Packer	20	1.34	23
Shipping/Receiving Clerk	40	2.68	12
Stock Clerk, Storeroom & Warehouse	10	0.67	33
All Other Clerical Occupations	40	2.68	N.A.

SIC 285 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Sales Occupations	110	7.38	N.A.
Sales Representatives	110	7.38	18
TOTAL	1,490	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISCELLANEOUS CHEMICAL PRODUCTS (SIC 289)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	270	8.31	17
Professional Occupations	330	10.16	N.A.
Chemical Engineers	30	0.92	28
Chemist	130	4.00	29
Purchasing Agent and/or Buyer	20	0.62	36
Accountants and Auditors	60	1.85	23
Personnel & Labor Relations Specialist	10	0.31	24
All Other Professional Occupations	80	2.46	N.A.
Technical Occupations	170	5.23	N.A.
Science Technician	130	4.00	20
All Other Technical Occupations	40	1.23	N.A.
Service Occupations	60	1.84	N.A.
Janitors and Porters	30	0.92	33
Guards	30	0.92	20
Maintenance & Production Occupations	1,810	55.68	N.A.
Supervisor, Maintenance and Production	140	4.31	17
Mechanic Maintenance	50	1.54	27
Truck Driver	50	1.54	39
Crane/Derrick Operator	40	1.23	35
Electrician	20	0.62	18
Industrial Truck Operator	30	0.92	30
Maintenance Repairer, General Utility	30	0.92	29
Plumber/Pipefitter	50	1.54	20
Firer, Stationary Boiler	30	0.92	21
Chemical Operator A	30	0.92	25
Chemical Operator B	60	1.85	44
Chemical Operator Helper	180	5.54	29
Pumper	30	0.92	23
Grinder Operator Chemical	70	2.15	16
Tinter	10	0.31	42
Mixer/Blender Chemicals	130	4.00	39
All Other Skilled Workers	30	0.92	N.A.
All Other Semiskilled Operatives	630	19.38	N.A.
All Other Laborers	200	6.15	N.A.
Clerical Occupations	460	14.17	N.A.
Accounting Clerk	60	1.85	13
Bookkeeper Hand	20	0.62	34
General Clerk	50	1.54	32

SIC 289 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Order Clerk	30	0.92	43
Payroll/Timekeeping Clerk	10	0.31	34
Personnel Clerk	10	0.31	28
Secretary	80	2.46	13
Switchboard Operator/Receptionist	10	0.31	48
Production Clerk	20	0.62	29
Shipping Packer	30	0.92	30
Shipping Receiving Clerk	30	0.92	26
Weigher	10	0.31	38
Stock Clerk Storeroom & Warehouse	20	0.62	44
All Other Clerical Occupations	80	2.46	N.A.
Sales Occupations	150	4.62	N.A.
Sales Representatives	150	4.62	36
TOTAL	3,250	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
RUBBER & MISC. PLASTICS (SIC 30)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,660	4.63	4
Professional Occupations	1,110	3.10	N.A.
Chemical Engineers	80	0.22	13
Industrial Engineers	110	0.31	11
Mechanical Engineers	160	0.45	20
All Other Engineers	40	0.11	N.A.
Chemist	160	0.45	19
Systems Analyst-EDP	30	0.08	24
Purchasing Agent/Buyer	120	0.33	9
Accountants & Auditors	220	0.61	13
Personnel & Labor Relations Specialist	70	0.20	10
All Other Professional Occupations	120	0.33	N.A.
Technical Occupations	470	1.31	N.A.
Computer Programmer	50	0.14	15
Drafter	50	0.14	10
All Other Engineering Technicians	70	0.20	17
Science Technician	250	0.70	12
All Other Technical Occupations	50	0.14	20
Service Occupations	670	1.87	N.A.
Supervisor, Nonworking Service	70	0.20	35
Janitors & Porters	430	1.20	6
Guards	80	0.22	14
All Other Service Workers	90	0.25	N.A.
Maintenance & Production Occupations	28,260	78.83	N.A.
Supervisor, Main. & Production	1,480	4.13	4
Mechanic, Automotive	10	0.03	25
Mechanic, Maintenance	490	1.37	11
All Other Mechanics & Repairers	40	0.11	25
Truck Driver	140	0.39	8
Carpenter	60	0.17	12
Delivery & Route Drivers	10	0.03	30
Electrician	180	0.50	10
Industrial Truck Operator	380	1.06	12
Inspector	830	2.32	10
Instrument Repairer	20	0.06	18
Machinist	350	0.98	15
Main. Repairer, General Utility	410	1.14	16

SIC 30 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Helper Trades	80	0.22	23
Millwright	70	0.22	33
Oiler	40	0.11	17
Order Filler	250	0.70	22
Painter, Maintenance	20	0.06	21
Plumber/Pipefitter	110	0.31	14
Press/Plate Printer	140	0.39	30
Production Packager	1,980	5.52	10
Stationary Boiler, Firer	90	0.25	15
Tool & Die Maker, Metal	180	0.50	12
Welders & Flame Cutters	60	0.17	16
Assembler	3,260	9.09	10
Tester	110	0.31	19
Compression/Injection Molder	4,200	11.72	7
Mixer/Blender Chemical	590	1.65	19
Extruder Operator, Thermoplastics	940	2.62	20
All Other Skilled Workers	260	0.73	N.A.
All Other Semiskilled Operatives	7,710	21.51	N.A.
All Other Laborers	3,770	10.52	N.A.
Clerical Occupations	3,120	8.70	N.A.
Clerical Supervisor	80	0.22	17
Bookkeeping and Billing Mach. Oper.	40	0.11	21
Computer Operator	60	0.17	14
Keypunch Operator	80	0.22	12
All Other Office Machine Oper.	10	0.03	21
Stenographer	40	0.11	17
Accounting Clerk	80	0.22	12
Bookkeeper, Hand	80	0.22	13
File Clerk	60	0.17	20
General Clerk	210	0.59	9
Order Clerks	130	0.36	13
Payroll/Timekeeping Clerk	150	0.42	6
Personnel Clerk	50	0.14	9
Procurement Clerk	30	0.08	16
Receptionist	10	0.03	19
Secretary	410	1.14	7
Switchboard Operator	40	0.11	17
Switchboard Oper./Receptionist	90	0.25	11
Typist	260	0.73	10
All Other Office Clerical Workers	60	0.17	N.A.
Production Clerk	200	0.56	6
Shipping Packer	480	1.34	18
Shipping/Receiving Clerk	250	0.70	7
Stock Clerk, Storeroom	160	0.45	14
All Other Plant Clerical Workers	60	0.17	N.A.

SIC 30 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Sales Occupations	560	1.56	N.A.
Sales Representative	490	1.37	10
Sales Clerk	70	0.20	19
TOTAL	35,850	100.0	N.A.

N.A. - Relative Error Not Available

Note: May not add to total due to rounding.

OCCUPATIONS OF EMPLOYEES
RUBBER FOOTWEAR (SIC 302)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	30	0.95	9
Professional Occupations	40	1.26	N.A.
Nurse Professional	10	0.32	28
Personnel & Labor Relations Specialist	10	0.32	20
All Other Professional Occupations	20	0.63	N.A.
Service Occupations	40	1.26	N.A.
Janitors and Porters	20	0.63	37
Guards	20	0.63	11
Maintenance & Production Occupations	2,910	91.80	N.A.
Supervisor, Maintenance & Production	90	2.84	19
Truck Driver	10	0.32	19
Electrician	10	0.32	14
Industrial Truck Operator	30	0.95	40
Inspector	30	0.95	24
Machinist	20	0.63	32
Helper Trades	10	0.32	47
Plumber/Pipefitter	10	0.32	11
Production Packager	120	3.79	11
Firer Stationary Boiler	10	0.32	14
Trimmer Machine	20	0.63	14
Assembler	710	22.40	13
Buffer Shoe Parts	30	0.95	15
Calender Operator	40	1.26	20
Calendar Operator Helper	30	0.95	13
Careman	10	0.32	18
Die Cutter and/or Clicker	40	1.26	20
Rubber-Mill Tender	50	1.58	19
Rubber Compounder	10	0.32	23
Tester	10	0.32	20
Mixer/Blender Chemical	30	0.95	20
All Other Skilled Workers	130	4.10	N.A.
All Other Semiskilled Operatives	380	11.99	N.A.
All Other Laborers	1,080	34.07	N.A.
Clerical Occupations	140	4.43	N.A.
Payroll/Timekeeping Clerk	20	0.63	6
Production Clerk	20	0.63	11
Shipping/Receiving Clerk	10	0.32	17
All Other Clerical Occupations	90	2.85	N.A.
Sales Occupations	10	0.32	N.A.
TOTAL	3,170	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISCELLANEOUS PLASTIC PRODUCTS (SIC 307)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,210	5.86	4
Professional Occupations	550	2.69	N.A.
Chemical Engineer	70	0.34	14
Industrial Engineer	50	0.24	16
Mechanical Engineer	80	0.39	16
All Other Engineers	20	0.10	24
Chemist	30	0.15	15
Systems Analyst, EDP	10	0.05	19
Purchasing Agent and/or Buyer	90	0.44	9
Accountants and Auditors	110	0.53	10
Personnel & Labor Relations Specialist	30	0.15	10
Designer	30	0.15	13
All Other Professional Occupations	30	0.15	N.A.
Technical Occupations	240	1.16	N.A.
Computer Programmer	30	0.15	15
Drafter	40	0.19	11
Science Technician	120	0.58	14
All Other Technical Occupations	50	0.24	N.A.
Service Occupations	390	1.88	N.A.
Supervisor, Nonworking Service	50	0.24	29
Janitors & Porters	260	1.26	9
Guards	40	0.19	15
All Other Service Occupations	40	0.19	N.A.
Maintenance & Production Occupations	16,030	77.52	N.A.
Supervisor, Maintenance & Production	840	4.07	6
Mechanic, Automative	10	0.05	20
Mechanic, Maintenance	190	0.92	10
Truck Driver	70	0.34	11
Carpenter	30	0.15	13
Delivery Driver	10	0.05	32
Electrician	80	0.39	10
Industrial Truck Operator	120	0.50	21
Inspector	320	1.55	11
Machinist	270	1.31	19
Maintenance Repairer, General Utility	220	1.04	9
Helper Trades	40	0.19	36
Oiler	10	0.05	28
Order Filler	70	0.34	17
Painter Maintenance	10	0.05	35

SIC 307 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Plumber/Pipefitter	10	0.05	27
Press and/or Plate Operator	140	0.68	30
Production Packager	1,620	7.84	12
Sewing Machine Oper., Regular Non Garment	20	0.10	33
Stationary Boiler Firer	20	0.10	38
Tool and Die Maker Metal	150	0.73	13
Welder and Flamecutter	30	0.15	32
Assembler	2,000	9.68	10
Fabricator Plastics	50	0.24	34
Finisher Hand	210	1.02	24
Finisher Machine	140	0.68	34
Pattern Maker Plastics	50	0.24	48
Slitting Machine Operator	80	0.39	45
Tester	60	0.29	30
Trimmer Plastic	220	1.06	26
Tumbler Operator Plastic	20	0.10	31
Painter Production	60	0.29	39
Compression &/or Injection-Molding Mach. Oper.	4,170	20.18	7
Grinder Operator, Chemical	40	0.19	15
Plastic Molding Machine Setter	380	1.84	10
Extruder Helper Operator	120	0.58	28
Punch Press Operator Plastic	150	0.73	35
Mixer/Blender Chemical	310	1.50	31
Blow Molding Machine Operator	150	0.73	49
Extruder Operator Thermoplastics	880	4.26	22
Laminator, Preforms	190	0.92	38
Press Operator, Plastics	100	0.48	44
Rotation Molding Machine Operator	110	0.53	13
All Other Skilled Workers	80	0.39	N.A.
All Other Semiskilled Operatives	870	4.21	N.A.
All Other Laborers	1,310	6.34	N.A.
Clerical Occupations	1,910	9.24	N.A.
Supervisor, Clerical	60	0.29	14
Bookkeeping & Billing Machine Operator	30	0.15	23
Computer Operator	40	0.19	18
Keypunch Operator	40	0.19	13
Stenographer	20	0.10	18
Accounting Clerk	50	0.24	14
Bookkeeper, Hand	60	0.29	13
File Clerk	40	0.19	25
General Clerk	80	0.39	13
Order Clerk	70	0.34	12
Payroll/Timekeeping Clerk	70	0.34	9
Personnel Clerk	30	0.15	13
Procurement Clerk	10	0.05	20
Receptionist	10	0.05	20
Secretary	300	1.45	7

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Switchboard Operator	10	0.05	12
Switchboard Operator/Receptionist	60	0.29	8
Typist	160	0.77	9
Production Clerk	90	0.44	9
Shipping Packer	350	1.69	25
Shipping/Receiving Clerk	170	0.82	7
Stock Clerk, Storeroom & Warehouse	110	0.53	14
All Other Clerical Occupations	50	0.24	N.A.
Sales Occupations	330	1.60	N.A.
Sales Representatives	300	1.45	9
Sales Clerks	30	0.15	12
TOTAL	20,660	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
LEATHER & LEATHER PRODUCTS (SIC 31)
MASSACHUSETTS

Reference Date May & June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	940	3.71	5
Professional Occupations	380	1.50	N.A.
Industrial Engineer	50	0.20	12
All Other Engineers	10	0.04	33
Purchasing Agent/Buyer	120	0.47	9
Accountants& Auditors	80	0.32	16
Personnel & Labor Relations Specialist.	30	0.12	17
Designer	60	0.24	17
All Other Professional Occupations . .	30	0.12	N.A.
Technical Occupations	60	0.24	N.A.
Computer Programmer	10	0.04	29
All Other Technical Occupations	50	0.20	46
Service Occupations	350	1.38	N.A.
Supervisor, Nonworking Service	100	0.39	18
Janitors & Porters	140	0.55	9
Guards	40	0.16	25
All Other Service Workers	70	0.28	N.A.
Maintenance & Production Occupations . .	20,690	81.55	N.A.
Supervisor, Main. & Production	650	2.56	6
Mechanic, Maintenance	80	0.32	24
All Other Mechanics & Repairers	20	0.08	23
Truck Driver	70	0.28	16
Carpenter	30	0.12	25
Electrician	20	0.08	19
Industrial Truck Operator	80	0.32	22
Inspector	410	1.62	10
Machinist	90	0.35	11
Main. Repairer, General Utility	110	0.43	14
Helper Trades	20	0.08	23
Order Filler	200	0.79	22
Production Packager	450	1.77	19
Stationary Boiler, Firer	20	0.08	25
Skiner	330	1.30	8
Trimmer, Machine	320	1.26	12
Assembler	600	2.36	14
Die Cutter/Clicking Machine Oper. . . .	920	3.63	9
Pattern Maker	30	0.12	21

SIC 31 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Sorter, Leather	380	1.50	13
Embossing, Stamping, Marking Mach. Oper.	360	1.42	13
Cutter, Hand	270	1.06	16
All Other Skilled Workers	200	0.79	N.A.
All Other Semiskilled Operatives	13,630	53.72	N.A.
All Other Laborers	1,400	5.52	N.A.
Clerical Occupations	2,410	9.50	N.A.
Clerical Supervisor	110	0.43	15
Bookkeeping & Billing Mach. Oper.	80	0.32	16
Computer Operator	20	0.08	24
Keypunch Operator	60	0.24	23
All Other Office Machine Operators	60	0.24	45
Stenographer	20	0.08	35
Accounting Clerk	90	0.35	17
Bookkeeper, Hand	180	0.71	9
File Clerk	50	0.20	19
General Clerk	240	0.95	18
Order Clerk	90	0.35	25
Payroll/Timekeeping Clerk	220	0.87	6
Personnel Clerk	30	0.12	18
Procurement Clerk	20	0.08	24
Receptionist	10	0.04	32
Secretary	110	0.43	11
Switchboard Operator	20	0.08	29
Switchboard Oper./ Receptionist	80	0.32	8
Typist	90	0.35	19
All Other Office Clerical Workers	60	0.24	N.A.
Production Clerk	60	0.24	14
Shipping Packer	300	1.18	14
Shipping/Receiving Clerk	210	0.83	11
Stock Clerk, Storeroom	170	0.67	33
All Other Plant Clerical Workers	30	0.12	N.A.
Sales Occupations	540	2.13	N.A.
Sales Representative	520	2.05	12
Sales Clerks	20	0.08	26
TOTAL	25,370	100.0	N.A.

N.A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
LEATHER, TANNING AND FINISHING (SIC 311)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	190	5.56	10
Professional Occupations	100	2.93	N.A.
Chemist	30	0.88	29
Purchasing Agents and/or Buyer	30	0.88	23
All Other Professional Occupations	40	1.17	N.A.
Technical Occupations	10	0.29	N.A.
Service Occupations	50	1.46	N.A.
Janitors & Porters	40	1.17	23
All Other Service Occupations	10	0.29	N.A.
Maintenance & Production Occupations	2,760	80.70	N.A.
Supervisor, Maintenance & Production	130	3.80	15
Mechanic Maintenance	40	1.17	23
Truck Driver	20	0.58	27
Industrial Truck Operator	60	1.76	18
Maintenance Repairer, General Utility	20	0.58	26
Helper Trades	10	0.29	35
Trimmer Machine	30	0.88	45
Beamer Machine	70	2.05	29
Buffer, Hides or Skin	120	3.51	14
Limer	30	0.88	35
Control Operator	50	1.46	30
Measurer Operator, Leather	90	2.63	20
Seasoner Machine	140	4.09	24
Seasoning Mixer	20	0.58	21
Sorter, Leather	190	5.56	24
Splitting Machine Feeder	100	2.92	14
Sprayer, Hand and/or Machine	60	1.76	21
Tacker, Toggler and Paster	340	9.94	6
Staker, Machine	80	2.34	19
Tanning Drum Oper. and/or Colorer	120	3.51	17
Wringer Machine Operator	110	3.22	17
Embossing, Stamping/Marking Mach. Oper.	130	3.80	36
Cutter, Hand	80	2.34	26
All Other Skilled Workers	90	2.63	N.A.
All Other Semiskilled Operatives	130	3.80	N.A.
All Other Laborers	500	14.62	N.A.
Clerical Occupations	290	8.46	N.A.
Supervisor, Clerical	10	0.29	32
Bookkeeper, Hand	30	0.88	18

OCCUPATIONS	EMPLOYMENT		
	Number	Percent	Relative Error Percent
General Clerk	20	0.58	24
Payroll/Timekeeper Clerk	20	0.58	16
Switchboard Operator/Receptionist	10	0.29	26
Production Clerk	10	0.29	40
Shipping Packer	40	1.17	15
Shipping/Receiving Clerk	60	1.75	27
All Other Clerical Occupations	90	2.63	N.A.
Sales Occupations	20	0.58	N.A.
TOTAL	3,420	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
FOOTWEAR CUT STOCK (SIC 313)
MASSACHUSETTS

Reference Date May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	250	7.62	7
Professional Occupations	60	1.82	N.A.
Purchasing Agent and/or Buyer	30	0.91	15
Accountants and Auditors	20	0.61	20
All Other Professional Occupations	10	0.30	N.A.
Service Occupations	50	1.51	N.A.
Supervisor, Nonworking Service	10	0.30	49
Janitors and Porters	10	0.30	41
All Other Service Occupations	30	0.91	N.A.
Maintenance & Production Occupations	2,490	75.84	N.A.
Supervisor, Maintenance & Production	70	2.13	10
Mechanic Maintenance	10	0.30	24
Delivery Driver	10	0.30	37
Truck Driver	40	1.22	23
Industrial Truck Operator	10	0.30	20
Inspector	10	0.30	27
Machinist	20	0.61	9
Maintenance Repairer, General Utility	20	0.61	20
Production Packager	50	1.52	31
Skiner	50	1.52	24
Trimmer Machine	40	1.22	37
Assembler	80	2.44	49
Buffer Shoe Parts	30	0.91	31
Perforator Operator	20	0.61	13
Floor Worker	90	2.74	18
Heel Builder	40	1.22	40
Sorter Leather	90	2.74	19
Stitcher Standard Machine	90	2.74	28
Sticher Utility	20	0.61	28
Compression &/or Injection Molding Mach. Oper.	10	0.30	35
Splitter Machine Operator	10	0.30	16
Fastener Machine	30	0.91	37
Cementer, Paster, Backer or Fitter, Hand	70	2.13	27
Embossing, Stamping &/or Marking Mach. Oper.	50	1.52	32
Cutter Hand	40	1.22	8
Die Cutter and/or Clicker Operator	220	6.71	33
All Other Skilled Workers	60	1.83	N.A.
All Other Semiskilled Operatives	950	28.96	N.A.
All Other Laborers	260	7.93	N.A.
Clerical Occupations	370	11.23	N.A.
Supervisor, Clerical	10	0.30	30
Bookkeeping & Billing Machine Operator	10	0.30	19
Accounting Clerk	20	0.61	20

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Bookkeeper, Hand	40	1.22	9
File Clerk	10	0.30	33
General Clerk	50	1.52	19
Order Clerk	10	0.30	19
Payroll/Timekeeping Clerk	30	0.91	14
Secretary	20	0.61	22
Switchboard Operator	10	0.30	43
Switchboard Operator/Receptionist	10	0.30	19
Typist	10	0.30	27
Production Clerk	10	0.30	44
Shipping Packer	40	1.22	16
Shipping/Receiving Clerk	60	1.83	24
Stock Clerk, Storeroom & Warehouse	10	0.30	43
All Other Clerical Occupations	20	0.61	N.A.
Sales Occupations	60	1.83	N.A.
TOTAL	3,280	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
HANDBAGS AND PERSONAL LEATHER GOODS (SIC 317)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	70	2.69	14
Professional Occupations	50	1.91	N.A.
Purchasing Agents and/or Buyers	10	0.38	17
Accountants and Auditors	10	0.38	16
Designer	20	0.77	13
All Other Professional Occupations	10	0.38	N.A.
Technical Occupations	10	0.38	N.A.
Service Occupations	70	2.68	N.A.
Janitors and Porters	20	0.77	8
All Other Service Occupations	50	1.91	N.A.
Maintenance & Production Occupations	2,010	77.29	N.A.
Supervisor, Maintenance & Production	40	1.54	18
Order Filler	10	0.38	37
Production Packager	110	4.23	28
Sewing Machine Operator, Reqular Equipment	250	9.62	19
Sewing Mach. Oper. Special and/or Auto. Equip.	90	3.46	42
Skiner	30	1.15	14
Assembler	180	6.92	17
Case Maker	290	11.15	10
Die Cutter and/or Clicking Machine Operator	70	2.69	14
Glue Spreading Machine Operator	80	3.08	30
Riveter, Light	20	0.77	32
Embossing, Stamping, Marking Mach. Oper.	20	0.77	19
Cutter, Hand	10	0.38	43
All Other Skilled Workers	180	6.92	N.A.
All Other Semiskilled Operatives	520	20.00	N.A.
All Other Laborers	110	4.23	N.A.
Clerical Occupations	270	10.33	N.A.
Supervisor, Clerical	30	1.15	9
Keypunch Operator	20	0.77	19
Bookkeeping & Billing Machine Operator	10	0.38	42
Accounting Clerk	20	0.77	11
Bookkeeper, Hand	10	0.38	22
File Clerk	10	0.38	24
General Clerk	10	0.38	35
Order Clerk	10	0.38	16
Payroll/Timekeeper Clerk	30	1.15	8

SIC 317 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Secretary	30	1.15	8
Switchboard Operator/Receptionist	10	0.38	14
Production Clerk	10	0.38	11
Shipping Clerk	20	0.77	28
Shipping/Receiving Clerk	10	0.38	20
Stock Clerk, Storeroom & Warehouse	10	0.38	22
All Other Clerical Occupations	30	1.15	N.A.
Sales Occupations	120	4.62	N.A.
TOTAL	2,600	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
STONE, CLAY & GLASS PRODUCTS (SIC 32)
MASSACHUSETTS

Reference Date April & May 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	800	5.92	12
Professional Occupations	840	6.22	N.A.
Industrial Engineer	290	2.15	7
Mechanical Engineer	20	0.15	47
All Other Engineers	80	0.59	N.A.
All Other Physical Scientists	30	0.22	N.A.
Purchasing Agent/Buyer	30	0.22	18
Accountants & Auditors	110	0.81	6
Personnel & Labor Relations Specialist.	40	0.30	12
All Other Professional Occupations . .	240	1.78	N.A.
Technical Occupations	370	2.74	N.A.
Drafter	90	0.67	13
All Other Engineering Technicians . . .	280	2.07	N.A.
Service Occupations	210	1.55	N.A.
Supervisor, Nonworking Service	20	0.15	32
Janitors & Porters	130	0.96	8
Guards	50	0.37	21
All Other Service Workers	10	0.07	N.A.
Maintenance & Production Occupations . .	9,050	66.99	N.A.
Supervisor, Main. & Production	440	3.26	10
Mechanic, Automotive	120	0.89	11
Mechanic, Maintenance	230	1.70	10
All Other Mechanics & Repairers	70	0.52	N.A.
Truck Drivers	750	5.55	16
Carpenter	30	0.22	22
Crane/Derrick Operator	40	0.30	25
Electrician	60	0.44	16
Industrial Truck Operator	190	1.41	13
Inspector	170	1.26	22
Machinist	110	0.81	25
Main. Repairer, General Utility	130	0.96	30
Oiler	30	0.22	12
Order Filler	50	0.37	21
Plumber/Pipefitter	30	0.22	10
Production Packager	70	0.52	20
Sheet Metal Worker	70	0.52	17
Stationary Engineer	10	0.07	29

SIC 32 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Welders & Flame Cutters	100	0.74	18
Tester	100	0.74	20
Mixer, Stone, Sand, Clay	20	0.15	40
All Other Skilled Workers	300	2.22	N.A.
All Other Semiskilled Operatives	4,120	30.50	N.A.
All Other Laborers	1,810	13.40	N.A.
Clerical Occupations	2,060	15.25	N.A.
Clerical Supervisor	120	0.89	8
Bookkeeping & Billing Mach. Oper.	20	0.15	36
Computer Operator	10	0.07	40
Keypunch Operator	40	0.30	15
Stenographer	10	0.07	38
Accounting Clerk	70	0.52	12
Bookkeeper, Hand	110	0.81	17
General Clerk	340	2.52	6
Order Clerk	40	0.30	34
Payroll/Timekeeping Clerk	140	1.04	6
Personnel Clerk	20	0.15	24
Receptionist	10	0.07	23
Secretary	200	1.48	16
Switchboard Operator	10	0.07	33
Switchboard Oper./Receptionist	30	0.22	21
Typist	110	0.81	18
All Other Office Clerical Workers	290	2.15	N.A.
Production Clerk	60	0.44	11
Shipping Packer	280	2.07	9
Shipping/Receiving Clerk	70	0.52	20
Stock Clerk, Storeroom	70	0.52	35
All Other Plant Clerical Workers	10	0.07	N.A.
Sales Occupations	180	1.33	N.A.
Sales Representative	160	1.18	35
All Other Sales Workers	20	0.15	N.A.
TOTAL	13,510	100.0	N.A.

N.A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
CONCRETE, GYPSUM, AND PLASTIC PRODUCTS (SIC 327)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	290	8.71	5
Professional Occupations	90	2.70	N.A.
Industrial Engineer	20	0.60	24
Mechanical Engineer	10	0.30	29
Purchasing Agent and/or Buyer	10	0.30	20
Accountants and Auditors	20	0.60	15
Personnel & Labor Relations Specialist	10	0.30	20
All Other Professional Occupations	20	0.60	N.A.
Technical Occupations	40	1.20	N.A.
Service Occupations	20	0.60	N.A.
Janitors and Porters	10	0.30	20
Guards	10	0.30	17
Maintenance & Production Occupations	2,580	77.45	N.A.
Supervisor, Maintenance & Production	100	3.00	12
Mechanic Automotive	100	3.00	9
Engineering Equipment Mechanic	10	0.30	20
Mechanic Maintenance	50	1.50	23
Truck Driver	540	16.22	12
Blaster	10	0.30	22
Crane/Derrick Operator	30	0.90	33
Crusher and/or Breaker Tender	10	0.30	31
Delivery Driver	30	0.90	48
Electrician	20	0.60	20
Heavy Equipment Operator	50	1.50	14
Industrial Truck Operator	90	2.70	17
Maintenance Repairer, General Utility	40	1.20	16
Oiler	10	0.30	19
Order Filler	30	0.90	24
Pipe Stripper	30	0.90	39
Welders and Flamecutters	50	1.50	24
Block Making Machine Operator	90	2.70	19
Cage Maker, Hand or Machine	20	0.60	32
Concrete Pipe Maker	60	1.80	36
Concrete Stone Fabricator	40	1.20	44
Concrete Stone Finisher	20	0.60	23
Kiln Operator	10	0.30	30
Tester	10	0.30	35
Batch Plant Operator	90	2.70	16
All Other Skilled Workers	30	0.90	N.A.
All Other Semiskilled Operatives	180	5.41	N.A.
All Other Laborers	830	24.92	N.A.

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Clerical Occupations	250	7.50	N.A.
Accounting Clerk	10	0.30	18
Bookkeeper Hand	60	1.80	12
General Clerk	90	2.70	10
Payroll/Timekeeping Clerk	10	0.30	18
Secretary	20	0.60	22
Switchboard Operator/Receptionist	10	0.30	14
Production Clerk	10	0.30	35
Shipping/Receiving Clerk	10	0.30	20
Stock Clerk, Storeroom & Warehouse	10	0.30	20
All Other Clerical Occupations	20	0.60	N.A.
Sales Occupations	60	1.80	N.A.
Sales Representatives	60	1.80	16
TOTAL	3,330	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS (SIC 329)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	350	4.33	7
Professional Occupations	720	8.91	N.A.
Industrial Engineers	250	3.09	7
Purchasing Agent and/or Buyer	20	0.25	17
Accountants and Auditors	90	1.11	6
Personnel and Labor Relations Specialist	30	0.37	12
All Other Professional Occupations	330	4.08	N.A.
Technical Occupations	330	4.08	N.A.
Drafter	30	0.37	12
All Other Technical Occupations	300	3.71	N.A.
Service Occupations	150	1.86	N.A.
Janitors and Porters	110	1.36	9
All Other Service Occupations	40	0.50	N.A.
Maintenance & Production Occupations	4,920	60.89	N.A.
Supervisor, Maintenance & Production	270	3.34	8
Mechanic Maintenance	170	2.10	12
Carpenter	30	0.37	23
Crusher and or Breaker Tender	80	0.99	38
Industrial Truck Operator	70	0.86	26
Inspector	150	1.86	24
Machinist	80	0.99	35
Sheet Metal Worker	50	0.62	18
Stationary Engineer	10	0.12	28
Welders and Flamecutters	50	0.62	16
Abrasive Grinder	300	3.71	8
Abrasive Mixer	140	1.73	9
Kiln Operator	90	1.11	20
Setter and/or Drawer	120	1.49	19
Tester	90	1.11	21
Mixer/Stone and Clay	20	0.25	43
All Other Skilled Workers	230	2.85	N.A.
All Other Semiskilled Operatives	1,950	24.13	N.A.
All Other Laborers	1,020	12.62	N.A.
Clerical Occupations	1,550	19.18	N.A.
Supervisor, Clerical	110	1.36	8
Keypunch Operator	40	0.50	16
Accounting Clerk	50	0.62	16
Bookkeeper, Hand	10	0.12	48
General Clerk	220	2.72	8

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Order Clerk	30	0.37	48
Payroll/Timekeeping Clerk	120	1.49	7
Secretary	160	1.98	9
Switchboard Operator	10	0.12	38
Switchboard Operator/Receptionist	20	0.25	37
Typist	100	1.24	19
Production Clerk	40	0.50	23
Shipping Packer	260	3.22	8
Shipping/Receiving Clerk	40	0.50	17
Stock Clerk, Storeroom & Warehouse	40	0.50	16
All Other Clerical Occupations	300	3.71	N.A.
Sales Occupations	60	0.74	N.A.
TOTAL	8,080	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
IRON AND STEEL FOUNDRIES (SIC 332)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	140	5.41	10
Professional Occupations	40	1.54	N.A.
Purchasing Agents and/or Buyers	20	0.77	22
All Other Professional Occupations	20	0.77	N.A.
Technical Occupations	20	0.78	N.A.
Drafter	10	0.39	28
All Other Technical Occupations	10	0.39	N.A.
Service Occupations	40	1.55	N.A.
Supervisor, Nonworking	30	1.16	35
Janitors and Porters	10	0.39	24
Maintenance & Production Occupations	2,170	83.82	N.A.
Supervisor, Maintenance & Production	100	3.86	14
Mechanic Maintenance	20	0.78	26
Truck Driver	20	0.78	19
Carpenter	10	0.39	28
Filers, Grinders, Buffers &/or Polishers	230	8.88	16
Industrial Truck Operator	40	1.54	22
Inspector	40	1.54	22
Maintenance Repairer, General Utility	50	1.93	16
Pourer, Metal	100	3.86	28
Refractory Materials Repairer	20	0.78	34
Sandblaster/Shotblaster	20	0.78	19
Welders and Flamecutters	10	0.39	29
Core Maker, Hand, Bench or Floor	100	3.86	21
Core Maker, Machine	10	0.39	28
Cupola Tapper	10	0.39	38
Grinding/Abrading Machine Operator	100	3.86	21
Molder Bench and/or Floor	200	7.72	18
Molder Machine	170	6.56	18
Pattern Gater	10	0.39	41
Pattern Maker, Wood	10	0.39	32
Sand Mixer, Hand or Machine	30	1.16	15
Press Setter, Molding & Coremaking	10	0.39	33
Shake-Out Worker	130	5.02	20
Shell Mold &/or Shell-Core Machine Operator	100	3.86	21
Core Assembler, Paster &/or Finisher	10	0.39	25
Furnace Operator/Cupola	40	1.54	15
Furnace Charger	20	0.77	32
Furnace Operator or Heater	30	1.16	23
All Other Skilled Workers	100	3.86	N.A.
All Other Semiskilled Operatives	90	3.47	N.A.
All Other Laborers	340	13.13	N.A.

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Clerical Occupations	170	6.57	N.A.
Bookkeeping & Billing Machine Operator	10	0.39	44
Bookkeeper, Hand	50	1.93	12
General Clerk	20	0.77	28
Payroll/Timekeeping Clerk	10	0.39	20
Secretary	10	0.39	41
Production Clerk	10	0.39	31
Shipping/Receiving Clerk	20	0.77	32
All Other Clerical Occupations	40	1.54	N.A.
Sales Occupations	10	0.39	N.A.
TOTAL	2,590	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
NONFERROUS FOUNDRIES (SIC 336)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	110	8.80	7
Professional Occupations	10	0.80	N.A.
Service Occupations	10	0.80	N.A.
Maintenance & Production Occupations	1,050	84.00	N.A.
Supervisor, Maintenance & Production	50	4.00	10
Filers, Grinders, Buffers &/or Polishers	110	8.80	14
Inspector	40	3.20	11
Maintenance Repairer, General Utility	20	1.60	15
Pourer, Metal	70	5.60	13
Welders and Flame Cutters	20	1.60	16
Core Maker, Hand, Bench or Floor	70	5.60	11
Core Maker, Machine	10	0.80	33
Grinding/Abrading Machine Operator	70	5.60	19
Molder, Bench &/or Floor	120	9.60	15
Molder, Machine	80	6.40	16
Pattern Maker, Wood	20	1.60	24
Sand Mixer, Hand or Machine	10	0.80	14
Shake-Out Worker	70	5.60	13
Punch Press Operator, Metal	40	3.20	26
Furnace Operator/Cupola	40	3.20	14
Furnace Operator or Heater	20	1.60	19
All Other Skilled Workers	160	12.80	N.A.
All Other Semiskilled Operatives	10	0.80	N.A.
All Other Laborers	20	1.60	N.A.
Clerical Occupations	70	5.60	N.A.
Bookkeeper, Hand	30	2.40	14
Shipping Packer	10	0.80	25
All Other Clerical Occupations	30	2.40	N.A.
TOTAL	1,250	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
FABRICATED METAL PRODUCTS (SIC 34)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	3,610	7.10	4
Professional Occupations	2,110	4.26	N.A.
Industrial Engineer	150	0.30	10
Mechanical Engineer	500	1.01	12
All Other Engineers	270	0.55	N.A.
Natural and Mathematical Scientist	120	0.24	12
Systems Analyst, EDP	100	0.20	7
Purchasing Agent and/or Buyer	210	0.42	6
Accountants and Auditors	310	0.63	6
Nurse Professional	40	0.08	10
Personnel & Labor Relations Specialists	80	0.16	6
Designer	60	0.12	20
All Other Professional Occupations	270	0.55	N.A.
Technical Occupations	1,370	2.76	N.A.
Computer Programmer	130	0.26	10
Drafter	720	1.46	10
Electronic Technician	50	0.10	22
Mechanical Engineering Technician	120	0.24	13
Tool Programmer Numerical Control	30	0.06	19
All Other Engineering Technicians	130	0.26	21
All Other Technical Occupations	190	0.38	10
Service Occupations	930	1.87	N.A.
Supervisor, Nonworking Service	130	0.26	17
Janitors and Porters	520	1.05	8
Guards	150	0.30	12
Food Service Workers	60	0.12	11
All Other Service Occupations	70	0.14	39
Maintenance & Production Occupations	34,020	68.79	N.A.
Supervisor, Maintenance & Production	1,390	2.81	4
Mechanic, Automotive	10	0.02	35
Mechanic, Maintenance	360	0.73	9
Truck Driver	450	0.91	6
Blacksmith	20	0.04	42
Carpenter	60	0.12	11
Crane/Derrick Operator	50	0.10	29
Delivery Driver	290	0.59	11
Electrician	130	0.26	10
Filer, Grinder, Buffer, Cleaner	810	1.64	9
Heater, Metal	60	0.12	24
Industrial Truck Operator	320	0.65	13
Inspector	1,370	2.77	4

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Machinist	590	1.19	15
Maintenance Repairer	230	0.47	9
Helper Trades	140	0.28	13
Millwright	50	0.10	20
Oiler	40	0.08	19
Order Filler	130	0.26	18
Painter, Maintenance	30	0.06	23
Electroplater	560	1.13	12
Plumber/Pipefitter	30	0.06	17
Press and/or Plate Operator	50	0.10	35
Production Packager	1,070	2.16	10
Roll Forming Machine Operator	20	0.04	41
Sandblaster/Shotblaster	70	0.14	20
Sheet Metal Worker	880	1.78	17
Firer, Stationary Boiler	30	0.06	23
Stationary Engineer	30	0.06	12
Structural Steel Worker	80	0.16	35
Tool and Die Maker, Metal	790	1.60	9
Welders and Flamecutters	1,720	3.48	10
Assembler	3,150	6.37	9
Core Maker Hand Bench	50	0.10	46
Core Maker, Machine	10	0.02	22
Die Setter	20	0.04	27
Drill Press/Boring Machine Operator	820	1.66	12
Drop Hammer Operator	50	0.10	36
Etcher and/or Engraver	90	0.18	27
Forging Press Operator	60	0.12	31
Forging Straightening	10	0.02	38
Grinding/Abrading Machine Operator	800	1.62	11
Header Machine Operator	210	0.42	38
Heat Treater Annealer	270	0.55	19
Lathe/Turning Machine Operator	1,560	3.16	12
Layout Worker	400	0.81	11
Machine Tool Operator Combination	1,340	2.71	12
Machine Tool Operator Numerical	130	0.26	24
Machine Tool Operator Tool Room	170	0.34	11
Machine Setter	660	1.34	11
Milling and Planing Machine Operator	480	0.97	31
Molder Bench and/or Floor	70	0.14	43
Molder Machine	30	0.06	25
Pattern Maker, Metal	40	0.08	34
Pattern Maker, Wood	20	0.04	39
Plater Helper	550	1.11	11
Sawyer/Metal	30	0.06	28
Tester	320	0.65	9
Upsetter	10	0.02	45
Woodworking Machine Operator	30	0.06	32
Painter, Production	570	1.15	10
Riveter, Light	170	0.34	49

SIC 34 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Punch Press Operator, Metal	1,900	3.84	7
Punch Press Setter	220	0.45	11
Shear/Slitter Operator	260	0.53	10
Shear/Slitter Setter	60	0.12	15
Compress/Injection-Molding Machine Operator	80	0.16	11
Dip Plater	290	0.59	17
Fitter, Structural Steel	250	0.51	28
Fourslide Machine Operator	30	0.06	29
Power Brake &/or Bending Mach. Oper., Metal	360	0.73	9
All Other Skilled Workers	840	1.70	N.A.
All Other Semiskilled Operatives	2,950	5.97	N.A.
All Other Laborers	2,800	5.66	N.A.
Clerical Occupations	6,170	12.48	N.A.
Supervisor, Clerical	40	0.08	16
Bookkeeper & Billing Machine Operator	60	0.12	10
Computer Operator	60	0.12	11
Keypunch Operator	190	0.38	11
Stenographer	120	0.24	12
Accounting Clerk	290	0.59	8
Bookkeeper, Hand	500	1.01	7
File Clerk	100	0.20	7
General Clerk	890	1.80	14
Order Clerk	280	0.57	9
Payroll/Timekeeping Clerk	180	0.36	6
Personnel Clerk	50	0.10	8
Procurememt Clerk	60	0.12	13
Receptionist	30	0.06	11
Secretary	1,110	2.25	6
Switchboard Operator	40	0.08	11
Switchboard Operator/Receptionist	90	0.18	6
Typist	240	0.49	11
Production Clerk	320	0.65	7
Shipping Packer	390	0.79	9
Shipping/Receiving Clerk	300	0.61	9
Stock Clerk, Storeroom & Warehouse	300	0.61	11
All Other Office Machines	30	0.06	12
All Other Office Clerical Workers	340	0.69	14
All Other Plant Clerical Workers	160	0.32	46
Sales Occupations	1,230	2.49	N.A.
Sales Representatives	1,190	2.41	8
Sales Clerks	40	0.08	23
TOTAL	49,440	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
CUTLERY, HAND TOOLS AND HARDWARE (SIC 342)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,400	9.04	5
Professional Occupations	1,080	6.98	N.A.
Industrial Engineer	50	0.32	13
Mechanical Engineer	110	0.71	19
All Other Engineers	190	1.23	8
Systems Analyst EDP	60	0.39	7
Purchasing Agent and/or Buyer	50	0.32	10
Accountants and Auditors	200	1.29	6
Nurse, Professional	20	0.13	13
Personnel & Labor Relations Specialist	40	0.26	9
Designer	20	0.13	28
All Other Professional Occupations	340	2.20	N.A.
Technical Occupations	410	2.64	N.A.
Computer Programmer	70	0.45	9
Drafter	70	0.45	22
Electronic Technician	10	0.06	13
All Other Technical Occupations	260	1.68	N.A.
Service Occupations	350	2.26	N.A.
Supervisor, Nonworking Service	30	0.19	27
Janitors and Porters	190	1.23	12
Guards	70	0.45	14
All Other Service Occupations	60	0.39	N.A.
Maintenance & Production Occupations	9,220	59.52	N.A.
Supervisor, Maintenance & Production	360	2.33	9
Mechanic, Maintenance	210	1.36	11
Truck Driver	40	0.26	16
Carpenter	20	0.13	20
Delivery and Returner	250	1.62	8
Electrician	50	0.32	11
Filers, Grinders, Buffers, Cleaners	160	1.03	23
Industrial Truck Operator	110	0.71	8
Inspector	640	4.13	8
Machinist	190	1.23	25
Maintenance Repairer, General Utility	40	0.26	20
Helper Trades	30	0.19	33
Millwright	30	0.19	15
Oiler	20	0.13	24
Order Filler	90	0.58	18
Painter, Maintenance	10	0.06	20
Electroplater	20	0.13	16
Plumber/Pipefitter	20	0.13	12

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Press Operator and/or Plater	10	0.06	19
Production Packager	370	2.39	15
Sandblaster/Shotblaster	20	0.13	29
Sheet Metal Worker	20	0.13	21
Tool and Die Maker, Metal	220	1.42	20
Welder and Flamecutter	140	0.90	31
Assembler	1,050	6.78	29
Die Setter	10	0.06	33
Drill Press/Boring Machine Operator	150	0.97	26
Drop Hammer Operator	40	0.26	27
Grinding/Abrading Machine Operator	430	2.78	28
Heat Treater Annealer	210	1.36	25
Lathe/Turning Machine Operator	160	1.03	22
Layout Worker, Metal	20	0.13	43
Machine Tool Operator, Combination	440	2.84	20
Machine Tool Operator #1	20	0.13	41
Machine Tool Operator, Tool Room	70	0.45	13
Machine Setter	120	0.78	26
Milling & Planing Machine Operator	140	0.90	23
Plater Helper	30	0.19	35
Sawyer/Metal	10	0.06	35
Tester	130	0.84	9
Woodworking Machine Operator	20	0.13	24
Painter Production	50	0.32	22
Riveter, Light	140	0.90	48
Punch Press Operator, Metal	350	2.26	17
Punch Press Setter	50	0.32	33
Shear/Slitter Operator	20	0.13	22
Shear/Slitter Setter	10	0.06	30
All Other Skilled Workers	420	2.71	N.A.
All Other Semiskilled Operatives	1,120	7.24	N.A.
All Other Laborers	940	6.07	N.A.
Clerical Occupations	2,320	14.98	N.A.
Bookkeeping & Billing Machine Operator	10	0.06	26
Computer Operator	20	0.13	26
Keypunch Operator	90	0.58	17
Stenographer	40	0.26	10
Accounting Clerk	150	0.97	8
Bookkeeper, Hand	90	0.58	18
File Clerk	60	0.39	16
General Clerk	300	1.94	23
Order Clerk	180	1.16	10
Payroll/Timekeeper Clerk	60	0.39	14
Personnel Clerk	30	0.19	13
Procurement Clerk	10	0.06	16
Receptionist	10	0.06	8
Secretary	550	3.55	7

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Switchboard Operator	20	0.13	14
Switchboard Operator/Receptionist	20	0.13	14
Typist	60	0.39	8
All Other Office Clerical Workers	210	1.36	14
Production Clerk	90	0.58	10
Shipping Packer	120	0.78	18
Shipping/Receiving Clerk	70	0.45	20
Stock Clerk, Storeroom	90	0.58	19
All Other Clerical Occupations	40	0.26	N.A.
Sales Occupations	700	4.52	N.A.
Sales Representatives	680	4.39	8
Sales Clerks	20	0.13	30
TOTAL	15,480	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
FABRICATED STRUCTURAL METAL PRODUCTS (SIC 344)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	640	6.99	6
Professional Occupations	150	1.65	N.A.
Industrial Engineer	10	0.11	45
Mechanical Engineer	40	0.44	23
All Other Engineers	10	0.11	40
Purchasing Agent and/or Buyer	40	0.44	12
Accountants and Auditors	20	0.22	19
All Other Professional Occupations	30	0.33	N.A.
Technical Occupations	310	3.39	N.A.
Drafter	240	2.62	13
Electronic Technician	20	0.22	32
Mechanical Engineering Technician	10	0.11	35
All Technical Occupations	40	0.44	N.A.
Service Occupations	130	1.42	N.A.
Janitors and Porters	100	1.09	24
All Other Service Occupations	30	0.33	N.A.
Maintenance & Production Occupations	6,970	76.15	N.A.
Supervisor, Maintenance & Production	270	2.95	12
Mechanic, Maintenance	20	0.22	38
Truck Driver	220	2.40	9
Crane-Crew/Derrick-Crew	20	0.22	42
Filers, Grinders, Buffers, Cleaners	260	2.84	14
Industrial Truck Operator	30	0.33	22
Inspector	100	1.09	10
Machinist	90	0.98	32
Maintenance Repairer, General Utility	30	0.33	15
Helper Trades	20	0.22	43
Production Packager	30	0.33	20
Sandblaster/Shotblaster	20	0.22	18
Sheet Metal Worker	840	9.17	21
Structural Worker	90	0.98	39
Tool and Die Maker, Metal	30	0.33	19
Welders and Flamecutter	1,170	12.77	11
Assembler	810	8.84	15
Drill Press/Boring Machine Operator	100	1.09	15
Grinding/Abrading Machine Operator	80	0.87	22
Lathe/Turning Machine Operator	40	0.44	27
Lay-Out Worker, Metal	350	3.82	13
Machine Tool Operator Combination	260	2.84	28
Machine Tool Operator #1	20	0.22	34
Machine Tool Set-Up Worker	70	0.76	33

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Milling and Planing Machine Operator	50	0.55	32
Sawyer/Metal	20	0.22	42
Tester	20	0.22	34
Painter, Production	180	1.99	14
Punch Press Operator, Metal	290	3.17	15
Punch Press Set-Up Worker	10	0.11	22
Shear/Slitter Operator	150	1.64	12
Shear/Slitter Set-Up Worker	30	0.33	20
Dip Plater	30	0.33	32
Filter, Structural Set-Up	280	3.06	28
Power Brake and/or Bending Machine Operator	240	2.62	11
All Other Skilled Workers	150	1.64	N.A.
All Other Semiskilled Operatives	280	3.06	N.A.
All Other Laborers	270	2.95	N.A.
Clerical Occupations	800	8.77	N.A.
Bookkeeping & Billing Machine Operator	10	0.11	31
All Other Office Machine Workers	10	0.11	37
Stenographer	10	0.11	41
Accounting Clerks	20	0.22	18
Bookkeeper, Hand	140	1.53	12
File Clerk	10	0.11	37
General Clerk	150	1.64	10
Payroll/Timekeeper Clerk	20	0.22	20
Procurement Clerk	10	0.11	33
Secretary	180	1.97	12
Switchboard Operator/Receptionist	20	0.22	19
Typist	20	0.22	24
Production Clerk	40	0.44	16
Shipping Packer	50	0.55	26
Shipping/Receiving Clerk	40	0.44	15
Stock Clerk, Storeroom & Warehouse	40	0.44	23
All Other Clerical Occupations	30	0.33	N.A.
Sales Occupations	160	1.75	N.A.
Sales Representatives	150	1.64	12
Sales Clerks	10	0.11	N.A.
TOTAL	9,160	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
SCREW MACHINE PRODUCTS, BOLTS, etc. (SIC 345)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	260	5.22	7
Professional Occupations	120	2.40	N.A.
Industrial Engineers	20	0.40	23
Purchasing Agent and/or Buyer	20	0.40	14
Accountants and Auditors	10	0.20	22
Nurse, Professional	10	0.20	28
Personnel and Labor Relations Specialist	10	0.20	22
All Other Professional Occupations	50	1.00	N.A.
Technical Occupations	70	1.40	N.A.
Drafter	30	0.60	13
All Other Technical Occupations	40	0.80	N.A.
Service Occupations	120	2.40	N.A.
Janitors and Porters	40	0.80	16
Guards	20	0.40	22
All Other Service Occupations	60	1.20	N.A.
Maintenance & Production Occupations	3,810	76.48	N.A.
Supervisor, Maintenance & Production	160	3.21	10
Mechanic, Maintenance	70	1.41	13
Truck Driver	20	0.40	25
Crane Crew/Derrick Crew	10	0.20	37
Electrician	20	0.40	18
Filer, Grinder, Buffer, Cleaner	30	0.60	36
Industrial Truck Operator	50	1.00	17
Inspector	140	2.81	16
Machinist	130	2.61	37
Maintenance Repairer, General Utility	20	0.40	31
Helper Trades	20	0.40	34
Order Filler	20	0.40	39
Electroplater	10	0.20	35
Production Packager	190	3.82	17
Tool & Die Maker	130	2.61	16
Welders and Flame Cutters	10	0.20	25
Assembler	80	1.61	23
Drill Press/Boring Machine Operator	160	3.21	19
Grinding/Abrading Machine Operator	50	1.00	34
Header Machine Operator	230	4.62	19
Heat Treater Annealer	40	0.80	32
Lathe/Turning Machine Operator	510	10.24	23
Machine Tool Operator Combination	380	7.63	18
Machine Tool Operator Tool Room	30	0.60	44

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Machine Tool Setter	220	4.42	25
Plater Helper	30	0.60	21
Tester	40	0.80	24
Punch Press Operator, Metal	60	1.20	38
Punch Press Setter	10	0.20	27
Dip Plater	60	1.20	16
All Other Skilled Workers	90	1.81	N.A.
All Other Semiskilled Operatives	470	9.44	N.A.
All Other Laborers	320	6.43	N.A.
Clerical Occupations	500	10.01	N.A.
Supervisor, Clerical	10	0.20	32
Bookkeeping & Billing Machine Operator	10	0.20	38
Computer Operator	10	0.20	24
Keypunch Operator	20	0.40	18
Accounting Clerk	20	0.40	21
Bookkeeper, Hand	30	0.60	12
File Clerk	10	0.20	22
General Clerk	70	1.41	14
Order Clerk	30	0.60	21
Payroll/Timekeeper Clerk	10	0.20	20
Procurement Clerk	10	0.20	22
Secretary	60	1.20	13
Switchboard Operator/Receptionist	10	0.20	22
Typist	50	1.00	15
Production Clerk	30	0.60	13
Shipping Clerk	50	1.00	21
Shipping/Receiving Clerk	20	0.40	20
Stock Clerk, Storeroom & Warehouse	20	0.40	24
All Other Clerical Occupations	30	0.60	N.A.
Sales Occupations	100	2.01	N.A.
TOTAL	4,980	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
METAL STAMPINGS (SIC 346)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	220	5.53	5
Professional Occupations	100	2.50	N.A.
Industrial Engineer	10	0.25	28
Mechanical Engineer	30	0.75	14
Purchasing Agent and/or Buyer	20	0.50	11
Accountants and Auditors	10	0.25	33
Personnel & Labor Relations Specialist	10	0.25	25
Designer	10	0.25	38
All Other Professional Occupations	10	0.25	N.A.
Technical Occupations	30	0.75	N.A.
Drafter	20	0.50	18
All Other Technical Occupations	10	0.25	N.A.
Service Occupations	100	2.51	N.A.
Supervisor, Nonworking Service	30	0.75	36
Janitors and Porters	60	1.51	10
Guards	10	0.25	29
Maintenance & Production Occupations	3,120	78.37	N.A.
Supervisor, Maintenance & Production	100	2.51	8
Truck Driver	40	1.01	26
Carpenter	10	0.25	14
Filer, Grinder, Buffer, Cleaner	50	1.26	25
Industrial Truck Operator	20	0.50	21
Inspector	80	2.01	11
Machinist	30	0.75	28
Maintenance Repairer, General Utility	20	0.50	16
Helper Trades	20	0.50	15
Production Packager	100	2.51	22
Sheet Metal Worker	20	0.50	24
Tool and Die Maker, Metal	230	5.78	12
Welder and Flamecutter	110	2.76	20
Assembler	320	8.04	13
Drill Press/Boring Machine Operator	60	1.51	25
Grinding/Abrading Machine Operator	30	0.75	24
Lathe/Turning Machine Operator	40	1.01	47
Layout Worker, Metal	30	0.75	29
Machine Tool Operator, Combination	50	1.26	13
Machine Tool Operator, Tool Room	30	0.75	23
Machine Tool Setter	60	1.51	34
Plater Helper	10	0.25	24
Tester	10	0.25	41
Painter, Production	40	1.01	27
Riveter, Light	30	0.75	21
Punch Press Operator, Metal	790	19.85	8
Punch Press Set-Up, Metal	100	2.51	12

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Shear/Slitter Operator	20	0.50	30
Shear/Slitter Set-Up Worker	10	0.25	40
Fourslide Machine Operator	10	0.25	34
Power Brake and/or Bending Machine Operator	50	1.26	16
All Other Skilled Workers	180	4.52	N.A.
All Other Semiskilled Operatives	250	6.28	N.A.
All Other Laborers	170	4.27	N.A.
Clerical Occupations	370	9.27	N.A.
Supervisor, Clerical	10	0.25	20
Bookkeeping & Billing Machine Operator	20	0.50	16
Accounting Clerk	10	0.25	27
Bookkeeper	60	1.51	13
General Clerk	30	0.75	17
Order Clerk	10	0.25	25
Payroll/Timekeeper Clerk	20	0.50	13
Personnel Clerk	10	0.25	28
Procurement Clerk	10	0.25	28
Secretary	30	0.75	12
Switchboard Operator/Receptionist	10	0.25	17
Typist	20	0.50	20
Production Clerk	20	0.50	11
Shipping Packer	20	0.50	20
Shipping/Receiving Clerk	40	1.01	15
Stock Clerk, Storeroom & Warehouse	20	0.50	23
All Other Clerical Occupations	30	0.75	N.A.
Sales Occupations	40	1.01	N.A.
TOTAL	3,980	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
METAL INDUSTRIES, NEC (SIC 347)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	330	8.07	6
Professional Occupations	50	1.22	N.A.
Purchasing Agent and/or Buyer	10	0.24	30
All Other Professional Occupations	40	0.98	N.A.
Technical Occupations	80	1.95	N.A.
Drafter	40	0.98	45
All Other Engineer Technicians	10	0.24	33
All Other Technical Occupations	30	0.73	N.A.
Service Occupations	70	1.71	N.A.
Janitors and Porters	40	0.98	13
All Other Service Occupations	30	0.73	N.A.
Maintenance & Production Occupations	3,090	75.53	N.A.
Supervisor, Maintenance & Production	110	2.69	13
Mechanic, Maintenance	10	0.24	24
Truck Driver	90	2.20	12
Electrician	20	0.49	29
Filer, Grinder, Buffer, Cleaner	150	3.67	22
Inspector	130	3.18	15
Maintenance Repairer, General Utility	40	0.98	22
Helper Trades	20	0.49	44
Electroplater	520	12.71	13
Production Packager	120	2.93	17
Tool and Die Maker, Metal	20	0.49	44
Assembler	60	1.47	31
Drill Press/Boring Machine Operator	10	0.24	35
Etcher and/or Engraver	50	1.22	31
Grinding/Abrading Machine Operator	80	1.96	32
Machine Tool Operator, Combination	10	0.24	48
Machine Tool Setter	10	0.24	33
Plater Helper	470	11.49	13
Tester	10	0.24	22
Painter Production	280	6.85	25
Punch Press Operator, Metal	70	1.71	45
Shear/Slitter Operator	30	0.73	32
Dip Plater	150	3.67	19
All Other Skilled Workers	140	3.42	N.A.
All Other Semiskilled Operatives	130	3.18	N.A.
All Other Laborers	360	8.80	N.A.

SIC 347 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Clerical Occupations	400	9.76	N.A.
Accounting Clerk	10	0.24	40
Bookkeeper, Hand	70	1.71	14
General Clerk	80	1.96	13
Order Clerk	10	0.24	35
Payroll/Timekeeping Clerk	10	0.24	24
Secretary	70	1.71	13
Switchboard Operator/Receptionist	10	0.24	33
Production Clerk	10	0.24	40
Shipping Packer	60	1.47	25
Shipping/Receiving Clerk	40	0.98	15
All Other Clerical Occupations	30	0.73	N.A.
Sales Occupations	70	1.71	N.A.
TOTAL	4,090	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISCELLANEOUS FABRICATED WIRE PRODUCTS (SIC 348)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	120	6.06	18
Professional Occupations	60	3.03	N.A.
Mechanical Engineer	30	1.52	18
Purchasing Agent and/or Buyer	10	0.51	31
Accountants and Auditors	10	0.51	35
All Other Professional Occupations	10	0.51	N.A.
Technical Occupations	20	1.01	N.A.
Mechanical Engineering Technicians	10	0.51	17
All Other Technical Occupations	10	0.51	N.A.
Service Occupations	10	0.51	N.A.
Maintenance & Production Occupations	1,580	79.80	N.A.
Supervisor, Maintenance & Production	40	2.02	16
Truck Driver	10	0.51	30
Inspector	10	0.51	39
Machinist	50	2.53	26
Welder and Flamecutter	180	9.09	39
Assembler	410	20.71	19
Machine Tool Setter	40	2.02	27
Painter Production	20	1.01	44
Punch Press Operator, Metal	70	3.54	36
All Other Skilled Workers	220	11.11	N.A.
All Other Semiskilled Operatives	460	23.23	N.A.
All Other Laborers	70	3.54	N.A.
Clerical Occupations	160	8.08	N.A.
Bookkeeper, Hand	30	1.52	24
General Clerk	40	2.02	35
Payroll/Timekeeping Clerk	10	0.51	28
Secretary	20	1.01	30
Switchboard Operator/Receptionist	10	0.51	24
Production Clerk	10	0.51	31
Shipping Packer	10	0.51	47
All Other Clerical Occupations	30	1.52	N.A.
Sales Occupations	30	1.52	N.A.
TOTAL	1,980	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISCELLANEOUS FABRICATED METAL PRODUCTS (SIC 349)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	440	5.89	7
Professional Occupations	360	4.81	N.A.
Industrial Engineer	50	0.67	15
Mechanical Engineer	140	1.87	10
All Other Engineers	20	0.27	22
Systems Analyst EDP	20	0.27	8
Purchasing Agent and/or Buyer	50	0.67	14
Accountants and Auditors	30	0.40	9
Nurse, Professional	10	0.13	13
Personnel & Labor Relations Specialist	10	0.13	13
Designer	20	0.27	20
All Other Professional Occupations	10	0.13	N.A.
Technical Occupations	250	3.34	N.A.
Computer Programmer	20	0.27	11
Drafter	160	2.14	9
Mechanical Engineering Technicians	40	0.54	13
Tool Programmer, #1	10	0.13	37
All Other Engineering Technicians	10	0.13	25
All Other Technical Occupations	10	0.13	N.A.
Service Occupations	130	1.74	N.A.
Janitors and Porters	70	0.94	20
Guards	30	0.40	15
All Other Service Occupations	30	0.40	N.A.
Maintenance & Production Occupations	4,890	65.48	N.A.
Supervisor, Maintenance & Production	260	3.48	6
Mechanic Maintenance	20	0.27	17
Truck Driver	40	0.54	20
Carpenter	10	0.13	13
Electrician	20	0.27	14
Filer, Grinder, Buffer, Cleaner	160	2.14	12
Industrial Truck Operator	40	0.54	13
Inspector	180	2.41	8
Machinist	40	0.54	36
Maintenance Repairer, General Utility	40	0.54	13
Helper Trades	30	0.40	15
Millwright	20	0.27	15
Oiler	10	0.13	14
Electroplater	10	0.13	28
Plumber/Pipefitter	10	0.13	20
Production Packager	80	1.07	39

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Sandblaster/Shotblaster	20	0.27	17
Sheet Metal Worker	120	1.61	30
Stationary Boiler Firer	10	0.13	23
Tool and Die Maker, Metal	60	0.80	13
Welders and Flamecutter	260	3.48	15
Assembler	490	6.56	17
Core Maker, Hand Bench	40	0.54	20
Drill Press/Boring Machine Operator	300	4.02	9
Grinding/Abrading Machine Operator	50	0.67	10
Heater Treater Annealer	10	0.13	20
Lathe/Turning Machine Operator	700	9.37	8
Lay-Out Worker, Metal	40	0.54	30
Machine Tool Operator, Combination	120	1.61	26
Machine Tool Operator, #1	80	1.07	12
Machine Tool Operator, Tool Room	20	0.27	15
Machine Tool Set-Up Worker	100	1.34	18
Milling and Planing Machine Operator	80	1.07	20
Molder Bench and/or Floor	60	0.80	25
Pattern Maker, Wood	20	0.27	17
Tester	80	1.07	11
Painter, Production	20	0.27	20
Punch Press Operator, Metal	130	1.74	30
Punch Press Set-Up Worker	20	0.27	31
Shear/Slitter Operator	20	0.27	43
Power Brake &/or Bending Machine Oper.	30	0.40	38
All Other Skilled Workers	180	2.41	N.A.
All Other Semiskilled Operatives	500	6.69	N.A.
All Other Laborers	360	4.82	N.A.
Clerical Occupations	1,310	17.49	N.A.
Supervisor Clerical	10	0.13	14
Bookkeeping & Billing Machine Operator	10	0.13	31
Computer Operator	30	0.40	11
Keypunch Operator	50	0.67	11
All Other Office Machine Operators	10	0.13	18
Stenographer	30	0.40	23
Accounting Clerk	50	0.67	45
Bookkeeper, Hand	50	0.67	25
File Clerk	20	0.27	14
General Clerk	190	2.54	14
Payroll/Timekeeping Clerk	30	0.40	12
Personnel Clerk	10	0.13	13
Secretary	140	1.87	7
Switchboard Operator/Receptionist	10	0.13	22
Typist	70	0.94	17
All Other Office Clerical Workers	150	1.20	N.A.
Production Clerks	90	1.20	12
Shipping Packer	90	1.20	7

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Shipping/Receiving Clerk	50	0.67	13
Stock Clerk, Storeroom	110	1.47	6
All Other Plant Clerical Occupations	110	1.47	19
Sales Occupations	90	1.20	N.A.
TOTAL	7,470	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MACHINERY, EXCEPT ELECTRICAL (SIC 35)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	6,410	8.08	5
Professional Occupations	6,080	7.67	N.A.
Chemical Engineer	40	0.05	35
Electronic Engineer	810	1.02	34
Industrial Engineer	560	0.71	17
Mechanical Engineer	1,810	2.28	9
Metallurgist	30	0.04	15
All Other Engineers	260	0.33	23
Natural and Mathematical Scientists	40	0.05	47
Systems Analyst, Business	120	0.15	15
Systems Analyst, Scientific & Technical	80	0.10	23
Purchasing Agent and/or Buyer	520	0.66	8
Accountants and Auditors	570	0.72	10
Commercial Artist	60	0.08	39
Writer and/or Editor	110	0.14	21
Nurse Professional	90	0.11	7
Personnel & Labor Relations Specialist	240	0.30	13
Designer	630	0.79	16
All Other Professional Occupations	110	0.14	24
Technical Occupations	4,640	5.84	N.A.
Computer Programmer, Business	230	0.29	26
Computer Programmer Scientific & Technical	310	0.39	32
Drafter	1,250	1.57	6
Electronic Technician	1,100	1.39	29
Mechanical Engineering Technician	740	0.93	24
Tool Programmer, Numerical Control	190	0.24	13
All Other Engineering Technicians	660	0.83	13
All Other Technical Occupations	160	0.20	32
Service Occupations	1,490	1.87	N.A.
Supervisor, Nonworking Service	180	0.23	21
Janitors and Porters	940	1.18	6
Guards	240	0.30	13
All Other Service Occupations	130	0.16	N.A.
Maintenance & Production Occupations	48,380	60.96	N.A.
Supervisor, Maintenance & Production	1,880	2.37	6
Mechanic Automative	30	0.04	16
Mechanic Maintenance	380	0.48	13
All Other Mechanics & Repairers	350	0.44	15
Truck Driver	350	0.44	16
Blacksmith	40	0.05	46

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Carpenter	190	0.24	19
Crane/Derrick Operator	150	0.19	18
Delivery Driver	50	0.06	26
Electrician	390	0.49	8
Filer, Grinder, Buffer, Cleaner	1,330	1.68	11
Gear Cutter, Grinder	390	0.49	15
Heater, Metal	70	0.09	33
Rigger	140	0.18	19
Industrial Truck Operator	450	0.57	10
Inspector	2,090	2.63	9
Instrument Repairer	30	0.04	25
Machinist	2,470	3.11	8
Maintenance Repairer, General Utility	280	0.35	12
Helper Trades	270	0.34	16
Millwright	150	0.19	16
Oiler	70	0.09	13
Order Filler	180	0.23	25
Painter, Maintenance	70	0.09	14
Electroplater	40	0.05	35
Plumber/Pipefitter	240	0.30	17
Production Packager	320	0.40	20
Refractory Material Repairer	40	0.05	32
Sandblaster/Shotblaster	150	0.19	20
Sheet Metal Worker	760	0.96	16
Stationary Boiler Firer	70	0.09	25
Stationary Engineer	130	0.16	16
Tool and Die Maker, Metal	2,220	2.80	10
Welders and Flamecutters	1,730	2.18	9
Assemblers	6,540	8.24	10
Die Setter	20	0.03	35
Drill Press/Boring Machine Operator	2,080	2.62	8
Forging Press Operator	50	0.06	28
Grinding/Abrading Machine Operator	2,350	2.96	15
Heat Treater Annealer	440	0.55	18
Lathe/Turning Machine Operator	3,160	3.98	6
Layout Worker, Metal	100	0.13	15
Machine Tool Operator, Combination	2,150	2.71	13
Machine Tool Operator, Numerical Control	1,010	1.27	10
Machine Tool Operator, Tool Room	310	0.39	17
Machine Tool Setter	1,090	1.37	13
Milling and Planing Machine Operator	2,010	2.53	8
Molder Bench and/or Floor	30	0.04	35
Pattern Maker Wood	240	0.30	35
Plater Helper	20	0.03	41
Sand Mixer, Hand or Machine	20	0.03	35
Sawyer/Metal	140	0.18	11
Tester	320	0.40	33
Woodworking Machine Operator	40	0.05	32

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Painter Production	300	0.38	11
Punch Press Operator, Metal	400	0.50	17
Shear/Slitter Operator	40	0.05	16
Shear/Slitter Set Up Operator	40	0.05	20
Balancing Machine Operator	30	0.04	41
Dip Plater	40	0.05	44
Furnance Operator/Cupola Tender	30	0.04	34
Power Brake &/or Bending Mach. Oper., Metal	100	0.13	18
All Other Skilled Workers	750	0.94	N.A.
All Other Semiskilled Operatives	5,280	6.65	N.A.
All Other Laborers	1,750	2.20	N.A.
Clerical Occupations	10,990	13.85	N.A.
Supervisor, Clerical	220	0.28	21
Bookkeeping & Billing Machine Operator	110	0.14	17
Computer Operator	200	0.25	9
Keypunch Operator	400	0.50	6
Peripheral EDP Operator, Equipment	40	0.05	25
Stenographer	400	0.50	22
Accounting Clerk	610	0.77	11
Bookkeeper, Hand	500	0.63	9
File Clerk	260	0.33	16
General Clerk	1,180	1.49	9
Order Clerk	280	0.35	16
Payroll/Timekeeping Clerk	350	0.44	10
Personnel Clerk	80	0.10	12
Procurement Clerk	140	0.18	12
Receptionist	40	0.05	20
Secretary	1,730	2.18	7
Switchboard Operator	70	0.09	15
Switchboard Operator/Receptionist	150	0.19	7
Typist	650	0.82	9
Production Clerk	950	1.20	8
Shipping Packer	460	0.58	10
Shipping/Receiving Clerk	360	0.45	8
Stock Clerk, Storeroom	1,010	1.27	11
All Other Office Clerical Workers	300	0.38	22
All Other Office Machines Operators	160	0.20	13
All Other Plant Clerical Occupations	340	0.43	32
Sales Occupations	1,380	1.74	N.A.
Sales Representatives	1,330	1.68	13
Sales Clerks	50	0.06	29
TOTAL	79,370	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
ENGINES AND TURBINES (SIC 351)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	290	4.04	47
Professional Occupations	990	13.79	N.A.
Industrial Engineer	90	1.25	20
Mechanical Engineer	440	6.13	6
Systems Analyst, Business	20	0.28	15
Purchasing Agent and/or Buyer	40	0.56	11
Accountants and Auditors	80	1.11	8
Personnel and Labor Relations Specialist	40	0.56	6
All Other Professional Occupations	280	3.90	N.A.
Technical Occupations	360	5.02	N.A.
Computer Programmer, Business	20	0.28	22
Drafter	110	1.53	18
Mechanical Engineering Technician	40	0.56	15
All Other Technical Occupations	190	2.65	N.A.
Service Occupations	180	2.50	N.A.
Janitors & Porters	100	1.39	5
All Other Service Occupations	80	1.11	N.A.
Maintenance & Production Occupations	4,430	61.70	N.A.
Supervisor, Maintenance & Production	200	2.79	6
Truck Driver	30	0.42	6
Industrial Truck Operator	70	0.97	6
Inspector	220	3.06	5
Helper Trades	30	0.42	6
Welders and Flamecutters	310	4.32	27
Assembler	430	5.99	9
Drill Press/Boring Machine Operator	150	2.09	15
Grinding/Abrading Machine Operator	120	1.67	5
Lathe/Turning Machine Operator	210	2.92	9
Machine Tool Operator, Numerical Control	190	2.65	6
Milling and Planing Machine Operator	230	3.20	5
Sawyer, Metal	20	0.28	8
Tester	80	1.11	13
All Other Skilled Workers	590	8.22	N.A.
All Other Semiskilled Operatives	1,020	14.21	N.A.
All Other Laborers	530	7.38	N.A.
Clerical Occupations	930	12.95	N.A.
Supervisor, Clerical	10	0.14	49
Computer Operator	10	0.14	15
Keypunch Operator	60	0.84	6
Stenographer	80	1.11	6
Accounting Clerk	30	0.42	13

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
General Clerk	80	1.11	10
Payroll/Timekeeping Clerk	10	0.14	13
Procurement Clerk	10	0.14	17
Secretary	120	1.67	32
Production Clerk	170	2.37	10
Shipping Packer	50	0.70	6
Stock Clerk, Storeroom	90	1.25	9
All Other Clerical Occupations	210	2.92	N.A.
TOTAL	7,180	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
METAL WORKING MACHINERY (SIC 354)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,360	8.54	8
Professional Occupations	440	2.75	N.A.
Electronic Engineer	10	0.06	32
Industrial Engineer	50	0.31	27
Mechanical Engineer	110	0.69	19
Systems Analyst, Business	10	0.06	43
Purchasing Agent and/or Buyer	90	0.57	12
Accountants and Auditors	40	0.25	12
Nurse Professional	10	0.06	11
Personnel & Labor Relations Specialist	20	0.13	16
All Other Professional Occupations	100	0.63	N.A.
Technical Occupations	500	3.15	N.A.
Computer Programmer, Business	20	0.13	26
Drafter	250	1.57	15
Electronic Technician	20	0.13	27
Mechanical Engineering Technician	70	0.44	18
Tool Programmer, Numerical Control	40	0.25	28
All Other Technical Occupations	100	0.63	N.A.
Service Occupations	320	2.01	N.A.
Supervisor, Nonworking Service	30	0.19	26
Janitors & Porters	220	1.38	16
Guards	50	0.31	27
All Other Service Occupations	20	0.13	N.A.
Maintenance & Production Occupations	11,140	69.93	N.A.
Supervisor, Maintenance & Production	430	2.70	10
Mechanic, Maintenance	40	0.25	27
Truck Driver	30	0.19	19
Carpenter	20	0.13	21
Electrician	60	0.38	29
Filer, Grinder, Buffer, Cleaner	410	2.57	38
Industrial Truck Operator	30	0.19	16
Inspector	410	2.57	17
Machinist	660	4.14	23
Maintenance Repairer, General Utility	40	0.25	25
Millwright	20	0.13	10
Order Filler	30	0.19	27
Electroplater	10	0.06	33
Plumber/Pipefitter	10	0.06	20
Production Packager	70	0.44	25
Sandblaster/Shotblaster	40	0.25	33
Stationary Boiler Firer	10	0.06	38

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Stationary Engineer	10	0.06	29
Tool & Die Maker, Metal	1,190	7.47	22
Welders & Flamecutters	260	1.63	43
Assemblers	1,030	6.47	19
Drill Press/Boring Machine Operator	540	3.39	17
Etcher and/or Engraver	80	0.50	23
Grinding/Abrading Machine Operator	1,110	6.97	16
Heat Treater Annealer	170	1.07	20
Lathe/Turning Machine Operator	790	4.96	11
Lay-Out Worker	10	0.06	40
Machine Tool Operator Combination	860	5.40	24
Machine Tool Operator, Numerical	250	1.57	28
Machine Tool Operator, Tool Room	70	0.44	29
Machine Tool Set-Up Worker	250	1.57	22
Milling and Planing Machine Operator	490	3.08	13
Tester	110	0.69	34
Painter Production	60	0.38	18
Punch Press Operator Metal	150	0.94	36
Punch Press Set-Up Operator	10	0.06	37
Shear/Slitter Set Up Operator	10	0.06	40
Power Brake and/or Bending Machine Operator	10	0.06	48
All Other Skilled Workers	90	0.57	N.A.
All Other Semiskilled Operatives	970	6.09	N.A.
All Other Laborers	300	1.88	N.A.
Clerical Occupations	1,910	12.01	N.A.
Supervisor, Clerical	40	0.25	25
Bookkeeping & Billing Machine Operator	20	0.13	27
Computer Operator	40	0.25	21
Keypunch Operator	50	0.32	18
Stenographer	40	0.25	29
Accounting Clerk	60	0.38	20
Bookkeeper, Hand	160	1.00	22
File Clerk	70	0.44	25
General Clerk	220	1.38	21
Order Clerk	80	0.50	18
Payroll/Timekeeping Clerk	80	0.50	16
Personnel Clerk	10	0.06	29
Procurement Clerk	20	0.13	31
Receptionist	10	0.06	40
Secretary	290	1.82	12
Switchboard Operator	10	0.06	41
Switchboard Operator/Receptionist	20	0.13	26
Typist	130	0.82	18
Production Clerk	170	1.07	9
Shipping Packer	90	0.57	16
Shipping/Receiving Clerk	60	0.38	27
Stock Clerk Storeroom & Warehouse	210	1.32	20
All Other Clerical Occupations	30	0.19	N.A.

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Sales Occupations	260	1.63	N.A.
Sales Representatives	250	1.57	17
All Other Sales Occupations	10	0.06	N.A.
TOTAL	15,930	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
SPECIAL INDUSTRY MACHINERY (SIC 355)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,140	6.68	10
Professional Occupations	1,500	8.80	N.A.
Chemical Engineer	40	0.23	40
Electronic Engineer	50	0.29	26
Industrial Engineer	90	0.53	17
Mechanical Engineer	530	3.11	18
Metallurgist	10	0.06	38
Systems Analyst, Business	30	0.18	17
Systems Analyst Scientific & Technical	30	0.18	44
Purchasing Agent and/or Buyer	90	0.53	11
Accountants and Auditors	200	1.17	17
Writer and/or Editor	10	0.06	42
Nurse, Professional	20	0.12	36
Personnel & Labor Relations Specialist	50	0.29	22
Designer	180	1.06	21
All Other Professional Occupations	170	1.00	N.A.
Technical Occupations	720	4.21	N.A.
Computer Programmer, Business	60	0.35	21
Drafter	190	1.11	22
Electronic Technician	40	0.23	22
Mechanical Engineering Technician	140	0.82	17
Tool Programmer, Numeric	60	0.35	11
All Other Technical Occupations	230	1.35	N.A.
Service Occupations	300	1.76	N.A.
Janitors and Porters	150	0.88	12
Guards	90	0.53	17
All Other Service Occupations	60	0.35	N.A.
Maintenance & Production Occupations	10,500	61.56	N.A.
Supervisor, Maintenance & Production	410	2.40	19
Mechanic, Maintenance	60	0.35	20
Truck Driver	60	0.35	14
Electrician	90	0.53	16
Filer, Grinder, Buffer, Cleaner	230	1.35	21
Gear Cutter, Grinder	50	0.29	22
Industrial Truck Operator	140	0.82	6
Inspector	290	1.70	7
Machinist	510	2.99	14
Maintenance Repairer, General Utility	60	0.35	26
Helper Trades	70	0.41	22
Millwright	90	0.53	16
Oiler	30	0.18	17

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Order Filler	90	0.53	38
Painter Maintenance	30	0.18	26
Plumber/Pipefitter	20	0.12	15
Production Packager	140	0.82	38
Refractory Material Repairer	10	0.06	26
Sandblaster/Shotblaster	60	0.35	22
Sheet Metal Worker	220	1.29	22
Tool and Die Maker, Metal	220	1.29	22
Welder and Flamecutter	330	1.93	40
Assembler	1,070	6.27	12
Drill Press/Boring Machine Operator	510	2.99	11
Grinding/Abrading Machine Operator	290	1.70	38
Heat Treater Annealer	90	0.53	30
Lathe/Turning Machine Operator	580	3.40	12
Lay out Worker, Metal	30	0.18	35
Machine Tool Operator, Combination	410	2.40	15
Machine Tool Operator, Numeric	160	0.94	15
Machine Tool Operator, Tool Room	40	0.23	39
Machine Tool Set-Up Worker	300	1.76	23
Milling and Planing Machine Operator	520	3.05	15
Molder, Bench and/or Floor	20	0.12	29
Molder, Machine	120	0.70	33
Sand Mixer, Hand or Machine	20	0.12	24
Sawyer/Metal	50	0.29	18
Painter, Production	60	0.35	17
Punch Press Operator, Metal	90	0.53	44
Punch Press Setter, Metal	20	0.12	18
Dip Plater	10	0.06	38
Furnace Operator and/or Cupola Tender	20	0.12	21
Power Brake and/or Bending Machine Operator	40	0.23	32
All Other Skilled Workers	530	3.11	N.A.
All Other Semiskilled Operatives	1,670	9.79	N.A.
All Other Laborers	640	3.75	N.A.
Clerical Occupations	2,670	15.68	N.A.
Supervisor, Clerical	120	0.70	24
Bookkeeping and Billing Machine Operator	30	0.18	22
Computer Operator	40	0.23	16
Keypunch Operator	80	0.47	16
Stenographer	70	0.41	38
Accounting Clerk	230	1.35	19
Bookkeeper, Hand	90	0.53	16
File Clerk	100	0.59	16
General Clerk	310	1.82	19
Order Clerk	60	0.35	28
Payroll/Timekeeping Clerk	90	0.53	13
Personnel Clerk	20	0.12	36
Procurement Clerk	40	0.23	29
Secretary	380	2.23	13

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Switchboard Operator	30	0.18	28
Switchboard Operator/Receptionist	30	0.18	19
Typist	150	0.88	13
Production Clerk	250	1.47	10
Shipping Packer	90	0.53	24
Shipping/Receiving Clerk	90	0.53	15
Stock Clerk, Storeroom & Warehouse	230	1.35	22
All Other Clerical Occupations	140	0.82	N.A.
Sales Occupations	230	1.35	N.A.
Sales Representatives	220	1.29	34
Sales Clerks	10	0.06	44
TOTAL	17,060	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
GENERAL INDUSTRY MACHINERY (SIC 356)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	700	7.98	7
Professional Occupations	480	5.47	N.A.
Electronic Engineer	20	0.23	38
Industrial Engineer	40	0.46	14
Mechanical Engineer	180	2.05	17
All Other Engineers	70	0.80	23
Purchasing Agent and/or Buyer	60	0.68	7
Accountant and Auditor	40	0.46	9
Nurse/Professional	10	0.11	7
Personnel & Labor Relations Specialist	10	0.11	16
Designer	30	0.34	34
All Other Professional Occupations	20	0.23	N.A.
Technical Occupations	290	3.30	N.A.
Computer Programmer, Business	10	0.11	12
Drafter	130	1.48	10
Mechanical Engineering, Technician	50	0.57	32
Tool Programmer, Numeric	10	0.11	21
All Other Technical Occupations	90	1.03	N.A.
Service Occupations	200	2.28	N.A.
Supervisor, Nonworking Service	30	0.34	34
Janitors and Porters	110	1.25	8
Guards	20	0.23	35
All Other Service Occupations	40	0.46	N.A.
Maintenance & Production Occupations	5,690	64.87	N.A.
Supervisor, Maintenance & Production	190	2.17	8
Mechanic, Maintenance	30	0.34	25
Truck Driver	20	0.23	15
Electrician	40	0.46	10
Filer, Grinder, Buffer, Cleaner	90	1.03	24
Gear Cutter, Grinder Operator	80	0.91	29
Hook and Chain Rigger	10	0.11	25
Industrial Truck Operator	80	0.91	9
Inspector	180	2.05	10
Machinist	90	1.03	14
Maintenance Repairer, General Utility	40	0.46	25
Helper Trades	40	0.46	23
Millwright	20	0.23	16
Oiler	20	0.23	12
Order Filler	30	0.34	22
Plumber/Pipefitter	10	0.11	42

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Production Packager	30	0.34	28
Sandblaster, Shotblaster	20	0.23	20
Sheet Metal Worker	110	1.25	44
Tool and Die Maker, Metal	100	1.14	23
Welder and Flamecutter	160	1.82	31
Assembler	930	10.60	12
Drill Press/Boring Machine Operator	200	2.28	13
Grinding/Abrading Machine Operator	130	1.48	17
Heat Treater Annealer	50	0.57	16
Lathe/Turning Machine Operator	350	3.99	14
Lay Out Worker, Metal	10	0.11	20
Machine Tool Operator Combination	120	1.37	24
Machine Tool Operator Numeric	130	1.48	16
Machine Tool Operator, Tool Room	110	1.25	32
Machine Tool Setter	200	2.28	27
Milling and Planing Machine Operator	170	1.94	13
Pattern Maker Wood	30	0.34	42
Tester	20	0.23	31
Painter Production	50	0.57	16
Punch Press Operator, Metal	40	0.46	20
Punch Press Set Up, Metal	90	1.03	36
Balancing Machine Operator	10	0.11	35
All Other Skilled Workers	130	1.48	N.A.
All Other Semiskilled Operatives	1,070	12.20	N.A.
All Other Laborers	460	5.25	N.A.
Clerical Occupations	1,250	14.24	N.A.
Supervisor, Clerical	20	0.23	36
Bookkeeping & Billing Machine Operator	30	0.34	23
Computer Operator	20	0.23	8
Keypunch Operator	50	0.57	8
Stenographer	30	0.34	14
Accounting Clerk	70	0.80	13
File Clerk	30	0.34	16
General Clerk	90	1.03	16
Order Clerk	30	0.34	22
Payroll/Timekeeping Clerk	60	0.68	9
Personnel Clerk	10	0.11	15
Procurement Clerk	20	0.23	19
Receptionist	10	0.11	40
Secretary	150	1.71	10
Switchboard Operator	10	0.11	40
Switchboard Operator/Receptionist	20	0.23	13
Typist	90	1.03	12
Production Clerk	110	1.25	9
Shipping Packer	60	0.68	16
Shipping/Receiving Clerk	60	0.68	13
Stock Clerk, Storeroom	90	1.03	18
All Other Clerical Occupations	190	2.17	N.A.

SIC 356 (cont.

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Sales Occupations	160	1.82	N.A.
TOTAL	8,770	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISCELLANEOUS MACHINERY, EXCEPT ELECTRICAL (SIC 359)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	660	9.95	6
Professional Occupations	80	1.20	N.A.
Industrial Engineer	20	0.30	27
Mechanical Engineer	20	0.30	12
Purchasing Agent and/or Buyer	20	0.30	13
Accountants and Auditors	10	0.15	19
All Other Professional Occupations	10	0.15	N.A.
Technical Occupations	90	1.36	N.A.
Drafter	60	0.91	20
Tool Programmer, Numeric	10	0.15	25
All Other Technical Occupations	20	0.30	N.A.
Service Occupations	120	1.81	N.A.
Maintenance & Production Occupations	5,030	75.85	N.A.
Supervisor, Maintenance & Production	190	2.87	11
Mechanic Maintenance	10	0.15	45
Truck Driver	40	0.60	17
Carpenter	10	0.15	20
Filer, Grinder, Buffer, Cleaner	180	2.71	22
Industrial Truck Operator	10	0.15	25
Inspector	190	2.87	8
Machinist	770	11.61	13
Maintenance Repairer, General Utility	20	0.30	18
Helper Trades	10	0.15	37
Sheet Metal Worker	60	0.91	35
Tool and Die Maker, Metal	320	4.83	23
Welders and Flamecutters	200	3.02	20
Assembler	140	2.11	12
Drill Press/Boring Machine Operator	380	5.73	12
Grinding/Abrading Machine Operator	150	2.26	12
Lathe/Turning Machine Operator	690	10.41	10
Machine Tool Operator, Combination	670	10.11	13
Machine Tool Operator, Numerical	50	0.75	23
Machine Tool Operator, Tool Room	10	0.15	36
Machine Tool Set Up Operator	290	4.37	14
Milling and Planing Machine Operator	330	4.98	12
Sawyer/Metal	10	0.15	28
Painter Production	10	0.15	38
Punch Press Operator, Metal	20	0.30	27
All Other Skilled Workers	10	0.15	N.A.
All Other Semiskilled Operatives	220	3.32	N.A.
All Other Laborers	40	0.60	N.A.

SIC 359 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Clerical Occupations	570	8.59	N.A.
Accounting Clerk	20	0.30	16
Bookkeeper Hand	130	1.96	20
File Clerk	10	0.15	20
General Clerk	110	1.66	12
Payroll/Timekeeping Clerk	10	0.15	12
Secretary	120	1.81	20
Switchboard Operator/Receptionist	10	0.15	18
Typist	10	0.15	19
Production Clerk	20	0.30	22
Shipping Packer	20	0.30	14
Shipping/Receiving Clerk	20	0.30	18
Stock Clerk, Storeroom	30	0.45	16
All Other Clerical Occupations	60	0.91	N.A.
Sales Occupations	80	1.21	N.A.
Sales Representatives	70	1.06	16
Sales Clerks	10	0.15	46
TOTAL	6,630	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
ELECTRICAL INDUSTRIAL APPARATUS (SIC 362)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	260	9.92	9
Professional Occupations	260	9.92	N.A.
Electronic Engineer	130	4.96	23
Mechanical Engineer	30	1.15	29
Purchasing Agent and/or Buyer	20	0.76	23
Accountants and Auditors	20	0.76	14
All Other Professional Occupations	60	2.29	N.A.
Technical Occupations	150	5.73	N.A.
Drafter	50	1.91	19
Electronic Technician	30	1.15	28
All Other Technical Occupations	70	2.67	N.A.
Service Occupations	70	2.68	N.A.
Janitors and Porters	40	1.53	28
All Other Service Occupations	30	1.15	N.A.
Maintenance & Production Occupations	1,450	55.34	N.A.
Supervisor, Maintenance & Production	90	3.44	12
Industrial Truck Operator	10	0.38	24
Inspector	70	2.67	17
Machinist	30	1.15	25
Production Packager	20	0.76	29
Welder and Flamecutter	20	0.76	40
Assembler	320	12.21	13
Tester	60	2.29	23
Painter Production	10	0.38	44
Punch Press Operator, Metal	50	1.91	27
Punch Press Set Up, Metal	20	0.76	15
Coil Winder	90	3.44	20
All Other Skilled Workers	50	1.91	N.A.
All Other Semiskilled Operatives	380	14.50	N.A.
All Other Laborers	230	8.78	N.A.
Clerical Occupations	430	16.42	N.A.
Accounting Clerk	30	1.15	17
Bookkeeper, Hand	20	0.76	35
General Clerk	40	1.53	30
Payroll/Timekeeping Clerk	10	0.38	37
Secretary	110	4.20	11
Typist	40	1.53	16
Production Clerk	20	0.76	25
Shipping Packer	20	0.76	17

SIC 362 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Shipping/Receiving Clerk	40	1.53	24
Stock Clerk, Storeroom & Warehouse	10	0.38	42
All Other Clerical Occupations	90	3.44	N.A.
TOTAL	2,620	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
ELECTRIC LIGHTING AND WIRING EQUIPMENT (SIC 364)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	350	3.73	10
Professional Occupations	370	3.95	N.A.
Electronic Engineer	60	0.64	23
Industrial Engineer	40	0.43	28
Mechanical Engineer	70	0.75	16
Chemist	10	0.11	29
Purchasing Agent and/or Buyer	60	0.64	32
Accountants and Auditors	40	0.43	14
Nurse Professional	20	0.21	13
Personnel & Labor Relations Specialist	20	0.21	15
Designer	20	0.21	25
All Other Professional Occupations	30	0.32	N.A.
Technical Occupations	200	2.13	N.A.
Computer Programmer, Business	10	0.11	25
Drafter	70	0.75	12
Electronic Technician	20	0.21	27
Mechanical Engineering Technician	50	0.53	18
All Other Technical Occupations	50	0.53	N.A.
Service Occupations	190	2.02	N.A.
Supervisor, Nonworking Service	10	0.11	37
Janitors and Porters	110	1.17	12
Guards	50	0.53	26
All Other Service Occupations	20	0.21	N.A.
Maintenance & Production Occupations	7,270	77.43	N.A.
Supervisor, Maintenance & Production	300	3.19	8
Mechanic Maintenance	110	1.17	26
Truck Driver	40	0.43	26
Carpenter	10	0.11	35
Electrician	50	0.53	15
Industrial Truck Operator	60	0.64	23
Inspector	230	2.45	10
Machinist	80	0.85	22
Maintenance Repairer, General Utility	70	0.75	18
Helper Trades	10	0.11	39
Millwright	30	0.32	31
Order Filler	100	1.07	33
Painter Maintenance	20	0.21	23
Electroplater	100	1.07	30
Plumber/Pipefitter	10	0.11	43

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Production Packager	140	1.49	25
Sheet Metal Worker	240	2.56	32
Tool and Die Maker, Metal	160	1.70	17
Welder and Flamecutter	70	0.75	35
Assembler	1,870	19.91	24
Drill Press/Boring Machine Operator	160	1.70	26
Etcher and/or Engraver	10	0.11	41
Grinding/Abrading Machine Operator	10	0.11	35
Lathe/Turning Machine Operator	100	1.07	25
Machine Tool Operator, Combination	90	0.96	44
Machine Tool Operator, Numerical	20	0.21	32
Machine Tool Operator, Tool Room	20	0.21	33
Machine Tool Set Up Operator	50	0.53	47
Milling and Planing Machine Operator	50	0.53	24
Plater Helper	20	0.21	30
Tester	30	0.32	26
Diecast Machine Operator and/or Die Operator	20	0.21	37
Punch Press Operator, Metal	250	2.66	29
Punch Press Setup, Metal	40	0.43	24
Shear/Slitter Operator	30	0.32	34
All Other Skilled Workers	520	5.54	N.A.
All Other Semiskilled Operatives	1,560	16.61	N.A.
All Other Laborers	590	6.28	N.A.
Clerical Occupations	940	10.02	N.A.
Bookkeeping & Billing Machine Operator	10	0.11	25
Computer Operator	10	0.11	22
Keypunch Operator	10	0.11	25
Accounting Clerk	50	0.53	14
Bookkeeper, Hand	50	0.53	40
File Clerk	20	0.21	45
Order Clerk	90	0.96	18
Payroll/Timekeeping Clerk	30	0.32	16
Personnel Clerk	20	0.21	11
Procurement Clerk	10	0.11	29
Secretary	90	0.96	10
Switchboard Operator	10	0.11	29
Switchboard Operator/Receptionist	20	0.21	13
Typist	40	0.43	18
Production Clerk	90	0.96	15
Shipping Packer	90	0.96	32
Shipping/Receiving Clerk	130	1.38	14
Stock Clerk, Storeroom	60	0.64	20
All Other Clerical Occupations	110	1.17	N.A.
Sales Occupations	70	0.75	N.A.
TOTAL	9,370	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
RADIO AND TV RECEIVING EQUIPMENT (SIC 365)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	300	9.06	40
Professional Occupations	230	6.93	N.A.
Industrial Engineer	10	0.30	13
Mechanical Engineer	10	0.30	11
Systems Analyst Business	10	0.30	16
Purchasing Agent and/or Buyer	20	0.60	17
Accountants and Auditors	50	1.51	16
Personnel & Labor Relations Specialist	10	0.30	13
Designer	20	0.60	20
All Other Professional Occupations	100	3.02	N.A.
Technical Occupations	280	8.46	N.A.
Computer Programmer Business	20	0.60	12
Drafter	30	0.91	15
Electronic Technician	180	5.44	49
All Other Technical Occupations	50	1.51	N.A.
Maintenance & Production Occupations	1,920	58.00	N.A.
Supervisor, Maintenance & Production	90	2.72	29
Electrician	10	0.30	16
Inspector	40	1.21	28
Instrument Repairer	10	0.30	18
Maintenance Repairer, General Utility	10	0.30	16
Order Filler	20	0.60	41
Production Packager	30	0.91	17
Assembler	660	19.94	32
Tester	40	1.21	22
All Other Skilled Workers	130	3.93	N.A.
All Other Semiskilled Operatives	720	21.75	N.A.
All Other Laborers	160	4.83	N.A.
Clerical Occupations	470	14.19	N.A.
Computer Operator	20	0.60	13
Keypunch Operator	20	0.60	12
Stenographer	20	0.60	16
Accounting Clerk	30	0.91	13
File Clerk	10	0.30	16
Order Clerk	30	0.91	12
Personnel Clerk	10	0.30	40
Procurement Clerk	10	0.30	17
Receptionist	10	0.30	35
Secretary	80	2.42	12
Switchboard Operator/Receptionist	10	0.30	24
Typist	40	1.21	14

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Production Clerk	10	0.30	20
Shipping Packer	20	0.60	30
Shipping/Receiving Clerk	30	0.91	32
Stock Clerk Storeroom	40	1.21	22
All Other Clerical Occupations	80	2.42	N.A.
Sales Occupations	110	3.33	N.A.
Sales Representatives	80	2.42	36
Sales Clerks	30	0.91	19
TOTAL	3,310	100.0	N.A.

N.A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
COMMUNICATION EQUIPMENT (SIC 366)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	1,590	5.90	19
Professional Occupations	4,100	15.22	N.A.
Electronic Engineer	2,440	9.06	15
Industrial Engineer	150	0.56	16
Mechanical Engineer	290	1.08	17
Systems Analyst, Business	120	0.45	10
Purchasing Agent and/or Buyer	130	0.48	20
Accountants and Auditors	220	0.82	24
Commercial Artist	30	0.11	39
Writer and/or Editor	60	0.22	34
Nurse, Professional	30	0.11	13
Personnel and Labor Relations Specialist	100	0.37	14
All Other Professional Occupations	530	1.97	N.A.
Technical Occupations	2,240	8.32	N.A.
Computer Programmer, Business	40	0.15	42
Drafter	580	2.15	12
Electronic Technician	1,000	3.71	23
Mechanical Engineering Technician	380	1.41	14
All Other Technical Occupations	240	0.89	N.A.
Service Occupations	280	1.04	N.A.
Guards	170	0.63	20
All Other Service Occupations	110	0.41	N.A.
Maintenance & Production Occupations	14,730	54.70	N.A.
Supervisor, Maintenance & Production	720	2.67	12
Mechanic Maintenance	90	0.33	11
Inspector	1,130	4.20	9
Machinist	190	0.71	32
Millwright	90	0.33	8
Painter Maintenance	20	0.07	12
Electroplater	100	0.37	12
Press and/or Plate Operator	30	0.11	38
Production Packager	40	0.15	43
Sheet Metal Worker	180	0.67	31
Tool and Die Maker Metal	180	0.67	10
Grinding/Abrading Machine Operator	190	0.71	13
Machine Tool Operator Tool Room	70	0.26	31
Tester	1,190	4.42	9
Painter Production	90	0.33	31
Wirer, Electronic	990	3.68	29
Coil Winder	710	2.64	8
Silk Screen Printer Electrical	20	0.07	14

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
All Other Skilled Workers	260	0.97	N.A.
All Other Semiskilled Operatives	4,450	16.52	N.A.
All Other Unskilled Workers	3,990	14.82	N.A.
Clerical Occupations	3,920	14.56	N.A.
Computer Operator	40	0.15	48
Keypunch Operator	120	0.45	19
Stenographer	160	0.59	15
Accounting Clerk	220	0.82	28
Bookkeeper, Hand	60	0.22	37
General Clerk	300	1.11	18
Payroll/Timekeeping Clerk	50	0.19	48
Personnel Clerk	50	0.19	25
Secretary	570	2.12	15
Switchboard Operator	40	0.15	37
Typist	150	0.56	31
Production Clerk	650	2.41	12
Shipping Packer	160	0.59	21
Shipping/Receiving Clerk	100	0.37	47
Stock Clerk Storeroom	330	1.23	14
All Other Clerical Occupations	920	3.42	N.A.
Sales Occupations	70	0.26	N.A.
TOTAL	26,930	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
ELECTRONIC COMPONENTS AND ACCESSORIES (SIC 367)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	2,840	7.95	9
Professional Occupations	3,540	9.94	N.A.
Chemical Engineer	10	0.03	45
Electronic Engineer	1,280	3.58	15
Industrial Engineer	70	0.20	47
Mechanical Engineer	160	0.45	35
Chemist	20	0.06	33
Systems Analyst Business	210	0.59	18
Systems Analyst, Scientific and Technical	60	0.17	19
Purchasing Agent and/or Buyer	310	0.87	8
Accountants and Auditors	440	1.23	15
Commercial Artist	50	0.14	19
Writer and/or Editor	90	0.25	19
Lawyer	20	0.06	36
Nurse, Professional	10	0.03	42
Personnel & Labor Relations Specialist	220	0.62	18
Designer	170	0.48	17
All Other Professional Occupations	420	0.18	N.A.
Technical Occupations	4,250	11.89	N.A.
Computer Programmer Business	130	0.36	19
Computer Programmer Scientific	680	1.90	20
Drafter	220	0.62	17
Electronic Technician	2,380	6.66	24
Mechanical Engineering Technician	120	0.34	42
Tool Programmer, Numerical	40	0.11	49
All Other Technical Occupations	680	1.90	N.A.
Service Occupations	620	1.71	N.A.
Supervisor, Nonworking Service	170	0.48	35
Janitors and Porters	310	0.87	9
Guards	130	0.36	15
All Other Service Occupations	10	0.03	N.A.
Maintenance & Production Occupations	18,600	52.08	N.A.
Supervisor, Maintenance & Production	1,020	2.86	15
Truck Driver	40	0.11	21
Carpenter	60	0.17	21
Electrician	50	0.14	13
Inspector	1,330	3.72	38
Instrument Repairer	20	0.06	41
Machinist	620	1.74	30
Maintenance Repairer, General Utility	230	0.64	17
Helper Trades	10	0.03	37
Millwright	30	0.08	18
Painter, Maintenance	10	0.03	24

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Electroplater	410	1.15	20
Plumber/Pipefitter	10	0.03	35
Press and/or Plate Operator	50	0.14	17
Production Packager	50	0.14	34
Tool and Die Maker, Metal	90	0.25	27
Welders and Flamecutters	150	0.42	47
Assemblers	7,590	21.25	15
Drill Press/Boring Machine Operator	190	0.53	32
Etcher and/or Engraver	190	0.53	31
Lathe/Turning Machine Operator	80	0.22	40
Machine Tool Operator Combination	150	0.42	26
Machine Tool Set Up Operator	30	0.08	46
Plater Helper	260	0.73	16
Tester	580	1.62	49
Painter Production	130	0.36	46
Wirers/ Electronic	580	1.62	23
Impregnator Electronic	10	0.03	34
Punch Press Operator, Metal	110	0.31	44
Coil Winder	220	0.62	28
Coil Finisher	150	0.42	42
Silk Screen Printer, Electronic	200	0.56	21
Mixer/Blender, Chemical	20	0.06	49
All Other Skilled Workers	120	0.34	N.A.
All Other Semiskilled Operatives	1,840	5.15	N.A.
All Other Laborers	1,970	5.52	N.A.
Clerical Occupations	5,350	15.00	N.A.
Supervisor Clerical	60	0.17	48
Bookkeeping and Billing Machine Operator	20	0.06	28
Computer Operator	150	0.42	16
Keypunch Operator	130	0.36	24
Peripheral EDP Equipment Operator	10	0.03	48
Stenographer	170	0.48	19
Accounting Clerk	380	1.06	15
Bookkeeper, Hand	160	0.45	16
File Clerk	20	0.06	42
General Clerk	620	1.74	14
Order Clerk	60	0.17	46
Payroll/Timekeeping Clerk	70	0.20	18
Personnel Clerk	30	0.08	23
Procurement Clerk	60	0.17	36
Receptionist	40	0.11	19
Secretary	1,380	3.86	14
Switchboard Operator	60	0.17	19
Switchboard Operator/Receptionist	50	0.14	14
Typist	310	0.87	23
Production Clerk	610	1.71	18

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Shipping Packer	150	0.42	16
Shipping/Receiving Clerk	260	0.73	14
Stock Clerk, Storeroom	470	1.32	18
All Other Clerical Occupations	80	0.22	N.A.
Sales Occupations	520	1.45	N.A.
Sales Representatives	430	1.20	16
Sales Clerks	90	0.25	16
TOTAL	35,720	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding

OCCUPATIONS OF EMPLOYEES
MISCELLANEOUS ELECTRICAL EQUIPMENT AND SUPPLIES (SIC 369)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	130	4.06	31
Professional Occupations	140	4.38	N.A.
Electronic Engineers	20	0.63	27
Mechanical Engineer	30	0.94	30
Purchasing Agent and/or Buyer	20	0.63	21
Accountants and Auditors	10	0.31	35
Personnel & Labor Relations Specialist	10	0.31	49
All Other Professional Occupations	50	1.56	N.A.
Technical Occupations	60	1.88	N.A.
Computer Programmer Business	10	0.31	20
Drafter	20	0.63	22
Electronic Technician	20	0.63	27
All Other Technical Occupations	10	0.31	N.A.
Service Occupations	20	0.63	N.A.
Maintenance & Production Occupations	2,410	75.33	N.A.
Supervisor, Maintenance & Production	130	4.06	9
Inspector	70	2.19	21
Maintenance Repairer, General Utility	20	0.63	36
Production Packager	30	0.94	30
Tool & Die Maker, Metal	40	1.25	24
Assembler	650	20.31	26
Drill Press/Boring Machine Operator	60	1.88	37
Lathe/Turning Machine Operator	50	1.56	31
Machine Tool Set-Up Operator	20	0.63	34
Milling & Planing Machine Operator	40	1.25	42
Tester	30	0.94	49
Punch Press Operator, Metal	80	2.50	28
Punch Press Set up Metal	30	0.94	32
All Other Skilled Workers	80	2.50	N.A.
All Other Semiskilled Operatives	690	21.56	N.A.
All Other Laborers	390	12.19	N.A.
Clerical Occupations	390	12.20	N.A.
Computer Operator	10	0.31	25
Keypunch Operator	10	0.31	20
General Clerk	20	0.63	27
Payroll/Timekeeping Clerk	10	0.31	42
Secretary	40	1.25	23
Switchboard Operator/Receptionist	10	0.31	20
Typist	20	0.63	35

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Production Clerk	70	2.19	30
Shipping/Receiving Clerk	60	1.88	16
Stock Clerk, Storeroom & Warehouse	40	1.25	29
All Other Clerical Occupations	100	3.13	N.A.
Sales Occupations	50	1.56	N.A.
TOTAL	3,200	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MOTOR VEHICLES AND EQUIPMENT (SIC 371)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	260	6.19	6
Professional Occupations	210	5.00	N.A.
Industrial Engineer	80	1.90	8
Mechanical Engineer	40	0.95	12
Purchasing Agent and/or Buyer	20	0.48	22
Accountants and Auditors	20	0.48	10
Personnel & Labor Relations Specialist	20	0.48	5
All Other Professional Occupations	30	0.71	N.A.
Technical Occupations	80	1.90	N.A.
Drafter	30	0.71	23
All Other Technical Occupations	50	1.19	N.A.
Service Occupations	90	2.15	N.A.
Janitors & Porters	60	1.43	7
Guards	20	0.48	8
All Other Service Occupations	10	0.24	N.A.
Maintenance and Production	3,260	77.62	N.A.
Supervisor, Maintenance & Production	170	4.05	6
Truck Driver	20	0.48	33
Carpenter	20	0.48	49
Electrician	40	0.95	13
Filer, Grinder, Buffer, Cleaner	50	1.19	28
Industrial Truck Operator	40	0.95	12
Inspector	180	4.29	6
Sheet Metal Worker	30	0.71	31
Tool and Die Maker, Metal	40	0.95	5
Welders & Flamecutter	260	6.19	24
Assembler	870	20.71	8
Drill Press/Boring Machine Operator	120	2.86	15
Painter Production	50	1.19	21
Punch Press Operator, Metal	40	0.95	24
All Other Skilled Workers	440	10.48	N.A.
All Other Semiskilled Operatives	740	17.62	N.A.
All Other Laborers	150	3.57	N.A.
Clerical Occupations	270	6.41	N.A.
Computer Operator	10	0.24	35
Keypunch Operator	10	0.24	14
Accounting Clerk	30	0.71	10
Bookkeeper, Hand	40	0.95	24
General Clerk	30	0.71	11
Payroll/Timekeeping Clerk	10	0.24	14
Secretary	30	0.71	24

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Shipping Packer	30	0.71	14
Shipping/Receiving Clerk	20	0.48	23
Stock Clerk, Storeroom & Warehouse	30	0.71	10
All Other Clerical Occupations	30	0.71	N.A.
Sales Occupations	30	0.72	N.A.
Sales Representative	20	0.48	28
All Other Sales Occupations	10	0.24	N.A.
TOTAL	4,200	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
SHIP AND BOAT BUILDING AND REPAIRING (SIC 373)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	150	5.19	11
Professional Occupations	50	1.74	N.A.
Purchasing Agent and/or Buyer	20	0.69	17
Accountants and Auditors	10	0.35	17
Personnel & Labor Relations Specialist	10	0.35	29
All Other Professional Occupations	10	0.35	N.A.
Technical Occupations	10	0.35	N.A.
Service Occupations	80	2.77	N.A.
Janitors and Porters	30	1.04	17
Guards	40	1.38	23
All Other Service Occupations	10	0.35	N.A.
Maintenance & Production Occupations	2,320	80.28	N.A.
Supervisor, Maintenance & Production	100	3.46	11
Mechanic, Maintenance	40	1.38	19
All Other Mechanics & Repairers	50	1.73	25
Truck Driver	30	1.04	13
Carpenter	330	11.42	16
Crane, Derrick & Hoist Operator	10	0.35	25
Electrician	50	1.73	22
Industrial Truck Operator	20	0.69	26
Machinist	60	2.08	25
Maintenance Repairer, General Utility	10	0.35	42
Helper Trades	30	1.04	44
Plumber/Pipefitter	60	2.08	28
Ship Rigger	90	3.11	27
Welders & Flamecutters	140	4.84	22
Assembler	190	6.57	48
Drill Press/Boring Machine Operator	30	1.04	28
Machine Tool Operator, Combination	30	1.04	44
Milling & Planing Machine Operator	10	0.35	29
Ship Fitter	110	3.81	33
Ship Wright	40	1.38	21
Painter Production	160	5.54	14
All Other Skilled Workers	50	1.73	N.A.
All Other Semiskilled Operatives	290	10.03	N.A.
All Other Laborers	390	13.49	N.A.
Clerical Occupations	240	8.33	N.A.
Accounting Clerk	10	0.35	17
Bookkeeper, Hand	30	1.04	23
General Clerk	40	1.38	23
Payroll/Timekeeping Clerk	10	0.35	19

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Personnel Clerk	10	0.35	31
Secretary	40	1.38	20
Switchboard Operator/Receptionist	10	0.35	17
Typist	10	0.35	22
Shipping Packer	10	0.35	27
Shipping/Receiving Clerk	10	0.35	25
Stock Clerk, Storeroom	30	1.04	18
All Other Clerical Occupations	30	1.04	N.A.
Sales Occupations	40	1.39	N.A.
Sales Representatives	30	1.04	22
Sales Clerks	10	0.35	41
TOTAL	2,890	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
INSTRUMENTS & RELATED PRODUCTS (SIC 38)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	3,010	7.21	4
Professional Occupations	6,120	14.65	N.A.
Chemical Engineer	180	0.43	20
Electronic Engineer	1,190	2.85	13
Industrial Engineer	260	0.62	11
Mechanical Engineer	400	0.96	10
All Other Engineers	1,560	3.73	8
Chemist	60	0.14	21
Physicist	20	0.05	23
All Other Physical Scientists	280	0.67	15
Systems Analyst-EDP	230	0.55	9
Purchasing Agent/Buyer	270	0.65	6
Accountants & Auditors	480	1.15	5
Writers & Editors	150	0.36	11
Nurse Professional	50	0.12	7
Personnel & Labor Relations Specialist	240	0.57	6
Designer	160	0.38	13
All Other Professional Occupations	590	1.41	N.A.
Technical Occupations	3,280	7.85	N.A.
Computer Programmer	160	0.38	11
Drafter	550	1.32	5
Electronic Technician	610	1.46	16
Mechanical Engineering Technician	300	0.72	14
Tool Programmer, Numerical Control	30	0.07	26
All Other Engineering Technicians	520	1.24	4
Science Technician	950	2.27	11
Prosthetist-Orthotist	20	0.05	42
All Other Technical Workers	140	0.34	20
Service Occupations	800	1.92	N.A.
Supervisor, Nonworking Service	90	0.22	16
Janitors, Porters, & Cleaners	460	1.10	5
Guards	240	0.57	10
Food Service Workers	10	0.02	31
Maintenance & Production Occupations	21,430	51.30	N.A.
Supervisor, Main. & Production	1,320	3.16	5
Mechanic Maintenance	630	1.51	11
All Other Mechanics & Repairers	170	0.41	11

SIC 38 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relati Erro Perce
Truck Driver	90	0.22	15
Carpenter	110	0.26	7
Electrician	270	0.65	7
Filers, Grinders, Buffers	200	0.48	21
Gear Cutter, Grinder	10	0.02	24
Industrial Truck Operator	20	0.05	34
Inspector	1,140	2.73	5
Instrument Repairer	300	0.72	11
Lens Grinder	410	0.98	17
Machinist	840	2.01	11
Main. Repairers, General Utility . .	180	0.43	8
Helper Trades	90	0.22	28
Oiler	30	0.07	12
Order Filler	140	0.34	16
Painter Maintenance	50	0.12	11
Electroplater	100	0.24	13
Plumber/Pipefitter	120	0.29	10
Production Packager	370	0.89	20
Sewing Mach. Oper., Regular	90	0.22	32
Sheet Metal Worker	70	0.17	27
Stationary Engineer	50	0.12	13
Tool & Die Maker, Metal	480	1.15	8
Welders & Flame Cutters	180	0.43	17
Optician, Dispensing	80	0.19	36
Assembler	4,590	10.99	13
Chemical Operator A	240	0.57	16
Chemical Operator B	360	0.86	20
Chemical Operator Helper	80	0.19	25
Drill Press/Boring Machine Oper. . .	160	0.38	22
Grinding/Abrading Mach. Oper. . . .	60	0.14	19
Heat Treater, Annealer	30	0.07	26
Instrument Maker	160	0.38	27
Lathe/Turning Machine Oper.	220	0.53	15
Machine Tool Oper., Combination . .	270	0.65	16
Mach. Tool Oper., Numerical Control.	70	0.17	20
Mach. Tool Oper., Tool Room	60	0.14	26
Mach. Tool Set Up Worker	90	0.22	16
Milling & Planning Mach. Oper. . . .	90	0.22	18
Plater Helper	20	0.05	14
Tester	880	2.11	10
Painter Production	100	0.24	16
Punch Press Operator, Metal	380	0.91	22
Punch Press Set Up Operator	50	0.12	32
Shear/Slitter Operator	20	0.05	28
Compression/Injection Molder	100	0.24	36
Mixer/Blender Chemical	60	0.14	32
All Other Skilled Workers	440	1.05	N.A
All Other Semiskilled Workers . . .	4,060	9.72	N.A
All Other Unskilled Workers	1,300	3.11	N.A

SIC 38 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Clerical Occupations	6,770	16.21	N.A.
Supervisor Clerical	140	0.34	17
Bookkeeping & Billing Mach. Oper.	30	0.07	12
Computer Operator	100	0.24	10
Keypunch Operator	220	0.53	7
Peripheral EDP Equip. Operator	30	0.07	19
Tabulating Machine Operator	10	0.02	12
All Other Office Machine Operators	90	0.22	14
Stenographer	30	0.07	17
Accounting Clerk	390	0.93	9
Bookkeeper Hand	130	0.31	10
File Clerk	140	0.34	17
General Clerk	1,010	2.42	10
Order Clerk	250	0.60	10
Payroll/Timekeeping Clerk	120	0.29	11
Personnel Clerk	70	0.17	9
Procurement Clerk	70	0.17	16
Receptionist	20	0.05	16
Secretary	1,410	3.38	4
Switchboard Operator	50	0.12	8
Switchboard Oper./Receptionist	60	0.14	6
Typist	370	0.89	9
All Other Office Clerical Workers	400	0.96	N.A.
Production Clerk	410	0.98	7
Shipping Packer	470	1.13	10
Shipping & Receiving Clerk	230	0.55	8
Stock Clerk.	340	0.81	9
All Other Plant Clerical Workers	180	0.43	19
Sales Occupations	360	0.86	N.A.
Sales Representatives	350	0.84	17
Sales Clerks	10	0.02	41
TOTAL	41,770	100.0	N.A.

N.A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
ENGINEERING AND SCIENTIFIC INSTRUMENTS (SIC 381)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	330	11.91	12
Professional Occupations	510	18.41	N.A.
Electronic Engineer	100	3.61	14
Mechanical Engineer	90	3.25	17
All Other Engineers	30	1.08	30
Purchasing Agent and/or Buyer	30	1.08	22
Accountants and Auditors	50	1.81	16
All Other Professional Occupations	210	7.58	N.A.
Technical Occupations	320	11.56	N.A.
Drafter	50	1.81	20
Electronic Technician	160	5.78	23
All Other Engineering Technicians	30	1.08	15
All Other Technical Occupations	80	2.89	N.A.
Service Occupations	50	1.80	N.A.
Janitors and Porters	40	1.44	14
All Other Service Occupations	10	0.36	N.A.
Maintenance & Production Occupations	1,080	38.98	N.A.
Supervisor, Maintenance & Production	90	3.25	12
Truck Driver	10	0.36	33
Inspector	80	2.89	18
Instrument Repairer	10	0.36	33
Machinist	60	2.17	20
Maintenance Repairer, General Utility	20	0.72	22
Order Filler	10	0.36	42
Assembler	240	8.66	18
Machine Tool Operator, Combination	30	1.08	43
Tester	70	2.53	19
All Other Skilled Workers	210	7.58	N.A.
All Other Semiskilled Operatives	210	7.58	N.A.
All Other Laborers	40	1.44	N.A.
Clerical Occupations	450	16.23	N.A.
Computer Operator	20	0.72	23
Accounting Clerk	20	0.72	23
Bookkeeper, Hand	30	1.08	30
General Clerk	10	0.36	33
Order Clerk	10	0.36	28
Procurement Clerk	10	0.36	20
Secretary	120	4.33	10
Typist	50	1.81	17
Shipping/Receiving Clerk	20	0.72	34
Stock Clerk, Storeroom	20	0.72	23
All Other Clerical Occupations	140	5.05	N.A.

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Sales Occupations	30	1.08	N.A.
TOTAL	2,770	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MECHANICAL MEASURING AND CONTROL DIVICES (SIC 382)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	390	3.90	4
Professional Occupations	2,210	22.11	N.A.
Electronic Engineer	870	8.71	12
Industrial Engineer	110	1.10	14
Mechanical Engineer	80	0.80	17
All Other Engineers	360	3.60	13
Chemist	10	0.10	17
Systems Analyst EDP	60	0.60	13
Purchasing Agent and/or Buyer	50	0.50	15
Accountants and Auditors	100	1.00	11
Writer and/or Editor	90	0.90	15
Nurse, Progessional	10	0.10	22
Personnel & Labor Relations Specialist	40	0.40	8
Designer	90	0.90	15
All Other Professional Occupations	340	3.40	N.A.
Technical Occupations	680	6.80	N.A.
Computer Programmer	90	0.90	14
Drafter	130	1.30	12
Electronic Technician	150	1.50	23
Mechanical Engineering Technician	100	1.00	30
All Other Engineering Technicians	150	1.50	13
All Other Technical Occupations	60	0.60	N.A.
Service Occupations	150	1.50	N.A.
Janitors and Porters	90	0.90	11
Guards	40	0.40	22
All Other Service Occupations	20	0.20	N.A.
Maintenance & Production Occupations	4,590	45.93	N.A.
Supervisor, Maintenance & Production	120	1.20	26
Mechanic Maintenance	30	0.30	14
Truck Driver	20	0.20	18
Carpenter	30	0.30	28
Electrician	30	0.30	16
Filer, Grinder, Buffer, Cleaner	40	0.40	14
Inspector	260	2.60	13
Machinist	450	4.50	14
Order Filler	30	0.30	32
Electroplater	80	0.80	14
Plumber/Pipefitter	10	0.10	20
Production Packager	50	0.50	34
Tool & Die Maker, Metal	70	0.70	15
Welders and Flamecutter	40	0.40	22

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Assembler	1,620	16.22	28
Grinding/Abrading Machine Worker	20	0.20	40
Instrument Maker	50	0.50	21
Machine Tool Operator, Combination	100	1.00	45
Machine Tool Operator, Numeric	40	0.40	45
Machine Tool Set-Up Worker	40	0.40	46
Tester	160	1.60	30
Painter Production	50	0.50	12
All Other Skilled Workers	290	2.90	N.A.
All Other Semiskilled Operatives	670	6.71	N.A.
All Other Laborers	290	2.90	N.A.
Clerical Occupations	1,930	19.30	N.A.
Supervisor, Clerical	120	1.20	15
Bookkeeping and Billing Machine Operator	10	0.10	11
Computer Operator	20	0.20	21
Keypunch Operator	60	0.60	19
Accounting Clerk	70	0.70	16
Bookkeeper, Hand	30	0.30	15
File Clerk	90	0.90	10
General Clerk	270	2.70	12
Order Clerk	70	0.70	18
Payroll/Timekeeping Clerk	30	0.30	22
Personnel Clerk	20	0.20	28
Procurement Clerk	30	0.30	28
Receptionist	10	0.10	25
Secretary	320	3.20	8
Switchboard Operator/Receptionist	10	0.10	32
Typist	150	1.50	11
All Other Office Clerical Workers	80	0.80	N.A.
Production Clerk	110	1.10	24
Shipping Packer	40	0.40	33
Shipping/Receiving Clerk	40	0.40	14
Stock Clerk, Storeroom	70	0.70	36
All Other Clerical Occupations	280	2.80	N.A.
Sales Occupations	40	~~4.0~~ 0.4	N.A.
TOTAL	9,990	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
OPTICAL INSTRUMENTS AND LENSES (SIC 383)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	450	11.57	14
Professional Occupations	940	24.15	N.A.
Electronic Engineer	200	5.14	20
Industrial Engineer	40	1.03	31
Mechanical Engineer	150	3.86	15
All Other Engineers	170	4.37	17
Systems Analyst EDP	30	0.77	19
Purchasing Agent and/or Buyer	40	1.02	14
Accountants and Auditors	60	1.54	18
Writer and/or Editor	20	0.51	20
Personnel & Labor Relations Specialist	10	0.26	16
Designer	30	0.77	36
All Other Professional Occupations	190	4.88	N.A.
Technical Occupations	530	13.62	N.A.
Drafter	100	2.57	14
Electronic Technician	180	4.63	36
Mechanical Engineering Technicians	120	3.08	15
All Other Engineering Technicians	90	2.31	16
All Other Technical Occupations	40	1.03	N.A.
Service Occupations	40	1.03	N.A.
Maintenance & Production Occupations	1,250	32.13	N.A.
Supervisor, Maintenance & Production	110	2.83	13
Inspector	80	2.06	14
Instrument Repairer	50	1.29	41
Lens Grinder	70	1.80	35
Machinist	120	3.08	24
Maintenance Repairer, General Utility	40	1.03	15
Order Filler	10	0.26	46
Tool & Die Maker, Metal	20	0.51	38
Welder & Flame Cutter	40	1.03	44
Optician, Dispensing and/or Optical Mechanic	70	1.80	46
Assembler	190	4.88	30
Drill Press/Boring Machine Operator	20	0.51	37
Milling & Planing Machine Operator	30	0.77	40
All Other Skilled Workers	160	4.11	N.A.
All Other Semiskilled Operatives	190	4.88	N.A.
All Other Laborers	50	1.29	N.A.
Clerical Occupations	620	15.94	N.A.
Supervisor, Clerical	10	0.26	47
Keypunch Operator	20	0.51	19

SIC 383 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Accounting Clerks	20	0.51	23
Bookkeeper, Hand	20	0.51	25
General Clerk	20	0.51	39
Personnel Clerk	10	0.26	21
Procurement Clerk	10	0.26	29
Secretary	180	4.63	10
Switchboard Operator/Receptionist	10	0.26	43
Typist	90	2.31	17
Production Clerk	50	1.29	25
Shipping/Receiving Clerk	30	0.77	19
Stock Clerk, Storeroom & Warehouse	40	1.03	18
All Other Clerical Occupations	110	2.83	N.A.
Sales Occupations	60	1.54	N.A.
TOTAL	3,890	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
OPTHALMIC GOODS (SIC 385)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	570	8.60	4
Professional Occupations	190	2.85	N.A.
Industrial Engineer	20	0.30	9
Mechanical Engineer	50	0.75	6
Systems Analyst EDP	10	0.15	18
Purchasing Agent and/or Buyer	10	0.15	8
Accountants and Auditors	50	0.75	6
Designer	10	0.15	27
All Other Professional Occupations	40	0.60	N.A.
Technical Occupations	110	1.66	N.A.
Drafter	20	0.30	5
All Other Engineering Technicians	60	0.91	9
All Other Technical Occupations	30	0.45	N.A.
Service Occupations	140	2.12	N.A.
Janitors and Porters	80	1.21	3
Guards	60	0.91	9
Maintenance & Production Occupations	4,470	67.41	N.A.
Supervisor, Maintenance & Production	140	2.11	8
Mechanic, Maintenance	60	0.91	5
Carpenter	10	0.15	12
Electrician	20	0.30	6
Filer, Grinder, Buffer, Cleaner	40	0.60	18
Inspector	190	2.87	11
Lens Grinder	350	5.28	10
Machinist	50	0.75	7
Order Filler	50	0.75	18
Electroplater	20	0.30	6
Production Packager	120	1.81	22
Tool & Die Maker, Metal	110	1.66	7
Welder & Flamecutter	20	0.30	35
Assembler	200	3.02	45
Punch Press Operator, Metal	250	3.77	11
Maintenance Repairer, General Utility	30	0.45	17
All Other Skilled Workers	240	3.62	N.A.
All Other Semiskilled Operatives	2,290	34.54	N.A.
All Other Laborers	280	4.22	N.A.
Clerical Occupations	1,090	16.44	N.A.
Supervisor, Clerical	10	0.15	14
Computer Operator	10	0.15	16
Keypunch Operator	60	0.91	7

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Accounting Clerk	120	1.81	4
Bookkeeper, Hand	10	0.15	22
File Clerk	20	0.30	8
General Clerk	100	1.51	31
Order Clerk	100	1.51	6
Payroll/Timekeeping Clerk	30	0.45	5
Personnel Clerk	20	0.30	6
Secretary	110	1.66	5
Typist	10	0.15	28
Production Clerk	40	0.60	7
Shipping Packer	20	0.30	14
Shipping/Receiving Clerk	20	0.30	13
Stock Clerk, Storeroom	90	1.36	6
All Other Clerical Occupations	320	4.83	N.A.
Sales Occupations	60	0.91	N.A.
TOTAL	6,630	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
PHOTOGRAPHIC EQUIPMENT AND SUPPLIES (SIC 386)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relati Erro Perce
Managers and Officers	780	6.10	6
Professional Occupations	2,020	15.81	N.A.
Industrial Engineer	20	0.16	7
All Other Engineers	920	7.20	4
All Other Physical Scientists	230	1.80	15
Systems Analyst EDP	100	0.78	13
Purchasing Agent and/or Buyer	100	0.78	5
Accountants and Auditors	170	1.33	4
Writer and/or Editor	30	0.23	21
Nurse, Professional	20	0.16	7
Personnel & Labor Relations Specialist	130	1.02	3
Designer	20	0.16	8
All Other Professional Occupations	280	2.19	N.A.
Technical Occupations	1,290	10.10	N.A.
Computer Programmer	20	0.16	22
Drafter	190	1.49	3
All Other Engineering Technicians	180	1.41	3
Science Technician	860	6.73	5
All Other Technical Occupations	40	0.31	N.A.
Service Occupations	310	2.43	N.A.
Janitors and Porters	140	1.10	8
Guards	110	0.86	9
All Other Service Occupations	60	0.47	N.A.
Maintenance & Production Occupations	6,550	51.25	N.A.
Supervisor, Maintenance & Production	640	5.01	3
Mechanic, Maintenance	460	3.60	5
All Other Mechanics & Repairers	130	1.02	3
Truck Driver	30	0.23	29
Carpenter	50	0.39	4
Electrician	180	1.41	4
Inspector	390	3.05	3
Instrument Repairer	210	1.64	6
Machinist	140	1.10	5
Helper Trades	10	0.08	29
Oiler	20	0.16	9
Painter, Maintenance	30	0.23	7
Plumber/Pipefitter	90	0.70	7
Stationary Engineer	30	0.23	16
Tool & Die Maker, Metal	180	1.41	6
Assembler	1,830	14.32	8
Chemical Operator A	170	1.33	10
Chemical Operator B	290	2.27	18

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Chemical Operator, Helper	50	0.39	7
Machine Tool Operator, Combination	10	0.08	14
Tester	510	3.99	5
Compression/Injection Molding Mach. Oper.	30	0.23	6
All Other Skilled Workers	20	0.16	N.A.
All Other Semiskilled Operatives	650	5.09	N.A.
All Other Laborers	400	3.13	N.A.
Clerical Occupations	1,790	14.00	N.A.
Computer Operator	30	0.23	14
Keypunch Operator	40	0.31	21
Accounting Clerk	70	0.55	18
General Clerk	510	3.99	13
Order Clerk	20	0.16	36
Secretary	530	4.15	4
Switchboard Operator	20	0.16	10
Typist	30	0.23	33
Production Clerk	90	0.70	15
Shipping Packer	300	2.35	7
Shipping/Receiving Clerk	60	0.47	24
Stock Clerk, Storeroom	40	0.31	29
All Other Clerical Occupations	50	0.39	N.A.
Sales Occupations	40	0.31	N.A.
TOTAL	12,780	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
MISC. MANUFACTURING INDUSTRIES (SIC 39)
MASSACHUSETTS

Reference Date April & June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relat Err Perc
Managers and Officers	1,550	5.61	13
Professional Occupations	730	2.64	N.A
Industrial Engineer	50	0.18	15
Mechanical Engineer	40	0.14	19
All Other Engineers	40	0.14	22
Chemist	20	0.07	36
Systems Analyst - EDP	30	0.11	21
Purchasing Agent/Buyer	130	0.47	9
Accountants & Auditors	140	0.51	18
Nurse, Professional	20	0.07	19
Personnel and Labor Relations Specialist	50	0.18	16
Designer	200	0.72	16
All Other Professional Occupations . .	10	0.04	N.A
Technical Occupations	170	0.62	N.A
Computer Programmer	40	0.14	33
Drafter	40	0.14	22
All Other Engineering Technicians . . .	50	0.18	27
All Other Technical Occupations	40	0.14	N.A
Service Occupations	410	1.48	N.A
Janitors & Porters	250	0.90	13
Guards	70	0.25	34
All Other Service Workers	90	0.33	N.A
Maintenance & Production Occupations . .	19,850	71.84	N.A
Supervisor, Main. & Production	560	2.03	13
Mechanic, Maintenance	70	0.25	27
All Other Mechanics & Repairers	40	0.14	40
Truck Driver	90	0.33	19
Carpenter	40	0.14	22
Delivery & Route Drivers	20	0.07	27
Electrician	50	0.18	21
Industrial Truck Operator	40	0.14	25
Inspector	420	1.52	24
Main. Repairer, General Utility	200	0.72	11
Electroplater	200	0.72	22
Plumber/Pipefitter	10	0.04	28
Production Packager	1,600	5.79	38
Tool & Die Maker, Metal	200	0.72	13

SIC 39 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Welders & Flame Cutters	240	0.87	19
Assembler	1,550	5.61	23
Decorator	170	0.62	21
Drill Press/Boring Mach. Oper.	60	0.22	31
Grinding/Abrading Mach. Oper.	270	0.98	22
Mach. Tool Oper., Tool Room	70	0.25	29
Mach. Tool Set Up Worker	100	0.36	24
Plater Helper	50	0.18	15
Punch Press Operator, Metal	570	2.06	14
Punch Press Set Up Worker	100	0.36	22
All Other Skilled Workers	1,660	6.01	N.A.
All Other Semiskilled Operatives	6,960	25.19	N.A.
All Other Laborers	4,510	16.32	N.A.
Clerical Occupations	4,040	14.62	N.A.
Clerical Supervisor	110	0.40	13
Bookkeeping & Billing Mach. Oper.	60	0.22	20
Computer Operator	60	0.22	19
Keypunch Operator	200	0.72	18
Stenographer	40	0.14	27
Accounting Clerk	220	0.80	35
Bookkeeper, Hand	210	0.76	10
File Clerk	140	0.51	21
General Clerk	290	1.05	18
Order Clerk	240	0.87	22
Payroll/Timekeeping Clerk	130	0.47	8
Personnel Clerk	30	0.11	23
Procurement Clerk	50	0.18	22
Receptionist	10	0.04	40
Secretary	410	1.48	13
Switchboard Operator	20	0.07	25
Switchboard Oper./Receptionist	70	0.25	10
Typist	240	0.87	25
All Other Office Clerical Workers	240	0.87	N.A.
Production Clerk	290	1.05	15
Shipping Packer	460	1.66	21
Shipping/Receiving Clerk	230	0.83	15
Stock Clerk, Storeroom	100	0.36	12
All Other Plant Clerical Workers	190	0.69	N.A.
Sales Occupations	880	3.18	N.A.
Sales Representatives	740	2.68	27
All Other Sales Occupations	140	0.51	N.A.
TOTAL	27,630	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
JEWELRY, SILVERWARE AND PLATED WARE (SIC 391)
MASSACHUSETTS

Reference Date April 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	380	4.65	8
Professional Occupations	230	2.79	N.A.
Industrial Engineer	30	0.37	15
Mechanical Engineer	10	0.12	30
All Other Engineers	20	0.24	43
Systems Analyst EDP	10	0.12	10
Purchasing Agent and/or Buyer	20	0.24	7
Accountants and Auditors	40	0.49	10
Nurse, Professional	10	0.12	14
Personnel & Labor Relations Specialist	20	0.24	11
Designer	60	0.73	14
All Other Professional Occupations	10	0.12	N.A.
Technical Occupations	40	0.49	N.A.
Computer Programmer	10	0.12	32
All Other Technical Occupations	30	0.37	N.A.
Service Occupations	150	1.83	N.A.
Supervisor, Nonworking Service	20	0.24	25
Janitors and Porters	90	1.10	8
Guards	30	0.37	16
All Other Service Occupations	10	0.12	N.A.
Maintenance & Production Occupations	5,600	68.46	N.A.
Supervisor, Maintenance & Production	220	2.69	9
Mechanic, Maintenance	20	0.24	32
Truck Driver	20	0.24	17
Carpenter	10	0.12	15
Delivery & Route Driver	10	0.12	19
Electrician	20	0.24	16
Filer, Grinder, Buffer, Cleaner	500	6.11	11
Inspector	130	1.59	10
Machinist	40	0.49	28
Maintenance Repairer, General Utility	50	0.61	18
Helper Trades	10	0.12	24
Order Filler	30	0.37	25
Electroplater	80	0.98	19
Production Packager	400	4.89	15
Tool and Die Maker, Metal	140	1.71	13
Welder and Flamecutter	100	1.22	21
Assembler	410	5.01	27
Bench Hand	310	3.79	21
Caster	70	0.86	35
Chaser, Jewelry or Silver	40	0.49	22
Decorater	160	1.96	21

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Engraver Decorative	60	0.73	29
Grinding/Abrading Machine Operator	180	2.20	28
Heat Treater Annealer	30	0.37	22
Machine Tool Operator, Tool Room	40	0.49	24
Machine Tool Set Up Operator	40	0.49	31
Metal Mold Maker	20	0.24	17
Plater Helper	120	1.47	18
Roller	30	0.37	22
Spinner	80	0.98	24
Stone Setter	70	0.86	19
Wax Pattern Maker	60	0.73	22
Punch Press Operator, Metal	350	4.28	17
Punch Press Set Up Metal	60	0.73	14
All Other Skilled Workers	330	4.03	N.A.
All Other Semiskilled Operatives	830	10.15	N.A.
All Other Laborers	530	6.48	N.A.
Clerical Occupations	1,600	19.56	N.A.
Supervisor, Clerical	60	0.73	12
Bookkeeping & Billing Machine Operator	20	0.24	16
Computer Operator	30	0.37	16
Keypunch Operator	80	0.98	14
Stenographer	20	0.24	21
Accounting Clerk	70	0.86	12
Bookkeeper, Hand	100	1.22	16
File Clerk	30	0.37	9
General Clerk	50	0.61	15
Order Clerk	100	1.22	13
Payroll/Timekeeping Clerk	30	0.37	9
Personnel Clerk	10	0.12	19
Procurement Clerk	30	0.37	14
Secretary	130	1.59	8
Switchboard Operator/Receptionist	30	0.37	7
Typist	40	0.49	14
Production Clerk	100	1.22	13
Shipping Packer	180	2.20	8
Shipping/Receiving Clerk	60	0.73	24
Stock Clerk, Storeroom	50	0.61	18
All Other Clerical Occupations	380	4.65	N.A.
Sales Occupations	180	2.20	N.A.
Sales Representatives	170	2.08	21
All Other Sales Occupations	10	0.12	44
TOTAL	8,180	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

OCCUPATIONS OF EMPLOYEES
COSTUME JEWELRY AND NOTIONS (SIC 396)
MASSACHUSETTS

Reference Date June 1974

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Managers and Officers	250	7.18	19
Professional Occupations	90	2.59	N.A.
Industrial Engineer	10	0.29	24
Mechanical Engineer	10	0.29	32
Systems Analyst EDP	10	0.29	20
Purchasing Agent and/or Buyer	20	0.57	10
Accountants and Auditors	10	0.29	12
Personnel & Labor Relations Specialist	10	0.29	17
Designer	20	0.57	16
Technical Occupations	30	0.86	N.A.
Service Occupations	50	1.43	N.A.
Supervisor, Nonworking Service	20	0.57	33
Janitors and Porters	30	0.86	10
Maintenance & Production Occupations	2,470	70.97	N.A.
Supervisor, Maintenance & Production	50	1.44	16
Truck Driver	10	0.29	20
Inspector	90	2.59	15
Machinist	220	6.32	31
Maintenance Repairer, General Utility	40	1.15	18
Order Filler	10	0.29	26
Production Packager	100	2.87	20
Tool & Die Maker, Metal	20	0.57	9
Welder and Flamecutter	30	0.86	17
Assembler	200	5.75	25
Machine Tool Operator, Combination	30	0.86	44
Machine Tool Set Up Operator	10	0.29	22
Plater Helper	20	0.57	29
Painter Production	20	0.57	47
Punch Press Operator, Metal	60	1.72	17
Punch Press Set Up Metal	10	0.29	22
All Other Skilled Workers	40	1.15	N.A.
All Other Semiskilled Operatives	480	13.79	N.A.
All Other Laborers	1,030	29.60	N.A.
Clerical Occupations	470	13.49	N.A.
Supervisor, Clerical	10	0.29	18
Computer Operator	10	0.29	20
Keypunch Operator	30	0.86	13
Accounting Clerk	20	0.57	14
Bookkeeper, Hand	20	0.57	12
File Clerk	20	0.57	16
General Clerk	50	1.44	37

SIC 396 (cont.)

OCCUPATION	EMPLOYMENT		
	Number	Percent	Relative Error Percent
Order Clerk	20	0.57	19
Payroll/Timekeeping Clerk	20	0.57	11
Personnel Clerk	10	0.29	12
Procurement Clerk	10	0.29	17
Secretary	70	2.01	30
Typist	40	1.15	18
Production Clerk	40	1.15	12
Shipping Packer	50	1.44	23
Shipping Receiving Clerk	20	0.57	17
Stock Clerk Storeroom	10	0.29	24
All Other Clerical Occupations	20	0.57	N.A.
Sales Occupations	120	3.45	N.A.
TOTAL	3,480	100.0	N.A.

N. A. - Relative Error Not Available

Note: May not add to totals due to rounding.

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